

*The*

# AMERICAN RIFLEMAN

First Copy

PUBLIC LIBRARY

DETROIT



W. J. HARRIS & SONS  
DETROIT, MICH.

Published By  
The National Rifle Association of America  
Incorporated 1871

JUNE, 1935

25 CENTS



1492 X 1500 ON THE ARMY L TARGET\* . . .  
18 POINTS BEYOND BEST PREVIOUS FIGURE

## Another "Best on Record" for Los Angeles . . . with PETERS .38

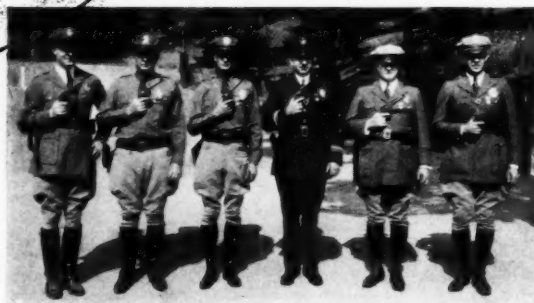
**SPECIAL FULL LOAD FACTORY AMMUNITION!**

Now, for the first time, all the records of pistol team competition are held by *one team and one ammunition* at one and the same time! With the annexation of the "Army L Target" record, the Los Angeles Police prove themselves to be the invincibles of pistol competition!

### THREE BIG REASONS FOR THOSE CONSISTENT WINS

1. A team that knows and respects its duty in regard to public safety.
2. A chief of police who clicks with public policy.
3. An ammunition that measures up to every requirement—emergency or sporting. Peters!

**THE PETERS CARTRIDGE COMPANY**  
Dept. F-26, Bridgeport, Conn.

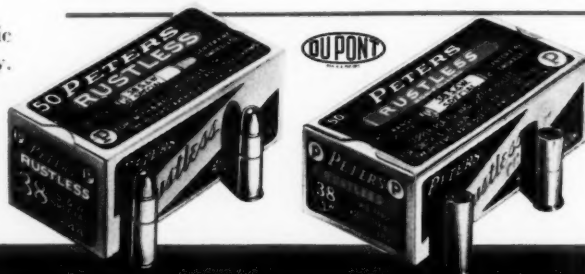


*Los Angeles Police Team, after establishing a new  
World's Record on the Army L Target.*

J. O. Dircks	299
M. E. Wheeler	298
Lee Young	299
J. J. Engbrecht	298
C. E. Ward	298 1492 x 1500
R. J. Nowka, Team Coach	

### "ARMY "L" TARGET MATCH . . .

10 shots Slow Fire	25 yards
10 shots Timed Fire	25 yards, 20 seconds for 5 shots
10 shots Rapid Fire	15 yards, 10 seconds for 5 shots



# PETERS CARTRIDGES

ACCURACY • DEPENDABILITY • SPEED-INTENSITY IGNITION • SMOOTH RECOIL

# AMERICA'S DOMINANT .22 TARGET RIFLE

## WINCHESTER MODEL 52

TRADE MARK

### Pegs Away—Winning Here, There, Everywhere!



#### Some Straws Showing How the Wind Blows

Wm. P. Schweitzer, Hillside, N. J., famous for consistent winning, shooting his Model 52 Winchester-Pope rifle, recently won the 1935 Pope Off-hand Match, in New York City, 50 shots with the exceptionally high score of 1238. Among numerous 1934 important firsts won, Schweitzer took the Long Range Championship at Camp Perry.



100% Winchester! Shooting Model 52 Rifles, the girls' rifle team of Carnegie Institute of Technology, Pittsburgh, Pa., coached by Sgt. R. C. Sommer, U.S.A., won the N.R.A. Postal 1935 Women's Intercollegiate Small Bore Rifle Championship. Score 2974 x 3000. Left to right: Nancy Chancellor, Betty Lehr, Margaret Schultz, Mary Wettach (1934 Individual Champion), Alda Waina.



Winchester Model 52s—and Winchester Precision EXXs Cartridges—were shot by the American Legion Post 209 rifle team of Akron, Ohio, in taking the 1935 N.R.A. Ohio State American Legion Team Championship. Score 1429. Left to right: (standing) C. L. Greer, C. V. Reckner, O. H. Laughman, V. Z. Canfield; (kneeling) L. C. Barrett, D. G. Cackler, W. D. Scarborough, F. B. Weekley.

Shooting his Winchester Model 52, Rodney Risley of Pleasantville, N. Y., has been twice a winner in recent N.R.A. Postal Matches. Recorded here—First in the Individual Standing Match 75 Ft. and First in the Life Members Gallery Match.



### MODEL 52 POPULARITY IN N.R.A. POSTAL MATCHES

#### Individual Kneeling Match 50 Ft.

—12 out of first 16 shot M52s, including winner, Alan Dubois, Hilmer, Cal., 391.

#### Individual Standing Match 50 Ft.

—15 out of first 21 shot M52s, including winner, J. M. Tokar, Detroit, Mich., 381.

#### Individual Standing Match 75 Ft.

—5 out of first 10 shot M52s, including winner, Rodney Risley, Pleasantville, N. Y., 378.

#### Women's Individual Match 50 Ft.

—12 out of first 15, including winner, Ora Rand, Melrose, Mass., 400.

#### Free Rifle Individual Match 50 Ft.

—5 out of first 8 shot M52s, including second place, J. M. Tokar, Detroit, Mich., 383.

#### Two-Man Team Match 75 Ft.

—10 out of first 12. Winners, Wm. T. Bryan, Roslyn, Pa., 567, shooting Winchester ammunition, E. O. Swanson, Minneapolis, Minn., 593, shooting M52s. Total score 1160.

#### Father and Son Match—12 out of first 16 shot M52s, including John and Charles Polk, Troy, N. Y., second place with 398.

#### N.R.A. Individual Gallery Championship 50 Ft. Metal Sights—14 out of 19, including winner, Don Andrus, Washington, D. C., 583.

#### N.R.A. Individual Gallery Championship 50 Ft. Any Sights—10 out of 16, including winner, Franklin West, Des Moines, Iowa, 592.

#### N.R.A. Individual Gallery Championship 75 Ft. Any Sights—8 out of 12, including winner, John Freitag, Chicago, Ill., 588.

#### American Legion Gallery Individual Match—11 out of 15, including winner, Franklin West, Des Moines, Iowa, 588.

#### N.R.A. Individual Intercollegiate Match—8 out of 13, including second place, won by H. P. Grimm, Princeton, N. J., with M52s and Winchester Precision.

#### Individual Military School—27 out of 28, including winner, Jack Mahler, Culver, Ind., 571.

#### Military School Team 50 Ft.—All shooters on first two winning teams shot M52s. Winners, Culver Military Academy team, 2809.

#### Life Members Gallery Small Bore Match 50 Ft.—28 out of 39, including winner, Harry Brill, Tulsa, Okla., 390.

#### Life Members Gallery Small Bore Match 75 Ft.—10 out of 12, including winner, Rodney Risley, Pleasantville, N. Y., 390.

The Winchester Shooters' Service Division welcomes correspondence from shooters. Whether individual problems, interesting news, or information sought, we are always glad to hear from you. Address Major J. W. Hession, Manager.

WINCHESTER REPEATING ARMS CO., NEW HAVEN, CONN., U. S. A.





# RELOADER NEWS



Published by the **HERCULES POWDER COMPANY** Wilmington, Delaware  
INCORPORATED

## HiVel No. 3 IS NEWEST HERCULES POWDER FOR POPULAR SPORTING LOADS

Reloaders who are especially interested in loads for the 30-30, 25 Remington, and other popular sporting cartridges of medium capacity are now offered in HiVel No. 3, a new Hercules powder developed just for this purpose.

Those who have tried the new powder are enthusiastic over results obtained, and predict that HiVel No. 3 will take its place as a leader in the Hercules series of rifle powders.

The famous name HiVel was given to the new powder when tests proved that it had the same accuracy and superior ballistics so long associated with HiVel Military Rifle Powder (now HiVel No. 2).

While developed for popular sporting loads, HiVel No. 3 gives excellent results with light bullets in the larger cases, such as the 30-'06. Some ballistics, published below, indicate the possibilities of this remarkable new Hercules powder.

### SOME HiVel No. 3 BALLISTICS

Cartridge	Bullet	Powder Charge (grains)	Muzzle Velocity f. s.	Pressure Pounds per Sq. In.
22 Savage HiPower	45 gr. Hornet H. P.	26.5	3710	50,000
25 Remington	117 gr. F. M. P.	23.5	2430	42,000
30/30 Winchester	110 gr. H. P.	33.2	2920	40,000
30-'06 Springfield	110 gr. H. P.	51.2	3475	51,000

## HiVel No. 2 IS NEW NAME FOR OLD RELIABLE HIVEL MILITARY POWDER

HiVel No. 2 is the new name for HiVel Military Rifle Powder. There is absolutely no change in the powder which for years has been used for super-accurate match ammunition in 30-'06 cartridges and for reloading other large capacity cartridges.

The minor change in name (merely the addition of No. 2 after the name HiVel) was

necessitated by the introduction of HiVel No. 3, as announced elsewhere.

### NEW HiVel BOOKLETS JUST OFF THE PRESS

Two new booklets, giving complete ballistic data on HiVel No. 2 and HiVel No. 3, have just come off the press. Write to the Sporting Powder Division for your copies.

**HERCULES POWDER COMPANY**  
INCORPORATED

980 King Street Wilmington, Delaware

## Hercules Discontinues "300" Rifle Powder

Hercules "300" Smokeless Rifle Powder has been withdrawn from canister sale, and is no longer available for reloaders. Hercules officials state that from the complete Hercules series of rifle powders, loads can be selected for any type bullet.

## HERCULES LINE COMPLETE

**H**ercules has available a complete series of smokeless rifle, pistol, and shotgun powders to meet the requirements of sportsmen. The most popular brands are listed here:

### RIFLE POWDERS

**HiVel No. 2**—For mid-range and maximum loads in large volume, military type cartridges such as 30-'06, 30-40, 270 Winchester, 303 British.

**HiVel No. 3**—For use in the popular sporting cartridges of medium capacity; also with light bullets in the larger cases.

**2400**—For small capacity, center fire cartridges, such as 22 Hornet, 25-30, 38-40, 44-40.

**Unique**—For gallery use and minimum loads in all cartridges.

### PISTOL POWDERS

**Bullseye**—The standard powder for pistols and revolvers.

**Unique**—Particularly useful for high-velocity loads.

### SHOTGUN POWDERS

**Red Dot**—Universally adaptable powder for trap, skeet, and game shooting.

**E.C.**—An old favorite for skeet and trapshooting.

**Infallible**—The all-round, waterproof powder for moderate loads.

**Herco**—For heavy, high-velocity loads for long-range shooting.



# The AMERICAN RIFLEMAN

VOL. 83, No. 6

JUNE, 1935

## N. R. A. SERVICE

**LEGISLATIVE DIVISION:** Looks after the interests of the shooters in Congress and State Legislatures, carries on the organized fight against unsound anti-gun laws, encourages legislation for the aid of civilian rifle practice and assists members to obtain permits to carry firearms to and from a range in states requiring such permits.

**THE AMERICAN RIFLEMAN:** This magazine is the official monthly publication of the N. R. A., and as such is "The Voice of the N. R. A." Non-political and non-sectarian in policy and free from commercial domination, it can and does speak freely, frankly and with authority on all shooting matters.

**TECHNICAL DIVISION:** Helps members with their personal shooting problems, reports in THE AMERICAN RIFLEMAN each month practical tests and critical examinations of new guns and equipment, and gives by personal letter advice on the selection of the right gun for a specific purpose, reloading, restocking, etc.

**CLUB SERVICE DIVISION:** Assists shooters in organizing local rifle and pistol clubs, furnishes detailed diagrams for the construction of regulation indoor and outdoor ranges, suggests a varied program and competition to keep up the interest of members, and generally assists affiliated units by passing along the successful experiences and ideas of other clubs.

**MEMBERSHIP EXTENSION:** Operates as a service division by furnishing members with sales literature and printed information so that they may explain to fellow sportsmen the value and benefits of N. R. A. membership and, moreover, because increased membership means an extension of N. R. A. service, it serves to benefit members in this way.

**COMPETITIONS DIVISION:** Conducts a year-round program of home-range matches in which members may win distinctive medals while practicing at home with rifle and pistol, aids state associations and civilian clubs in planning and conducting regional, state and local shooting matches, and gives members helpful personal advice on their individual target-shooting problems.

**JUNIOR DIVISION:** Provides individual and club memberships for junior shooters, boys and girls alike; conducts a year-round program of competitive and qualification shooting, and teaches Young America how to handle firearms safely and properly. No father should hesitate to support its good work.

**POLICE DIVISION:** Assists police departments in marksmanship training of their officers. Through the Association's far-flung contact and with the aid of experienced hands to carry on the work, this division is performing a public service which warrants the support of every good citizen.

**PUBLICITY DIVISION:** Endeavors to educate the American public through the public press to the fact that the man who likes to shoot is not a criminal and, although its services are intangible in character, it represents an important chain in the campaign "to make America, once again, a Nation of Riflemen."

### Officers of

#### THE NATIONAL RIFLE ASSOCIATION OF AMERICA

KARL T. FREDERICK  
President

GUSTAVUS D. POPE, First Vice-President

MAJ. L. W. T. WALLER, JR.  
Second Vice-President

LT. COL. N. C. NASH, JR.  
Third Vice-President

MAJ. GEN. M. A. RECKORD      C. B. LISTER  
Executive Vice-President      Secretary-Treasurer

## CONTENTS

	PAGE
Cover Photo	
Courtesy of Maj. L. W. T. Waller, Jr. Picture was taken on a big-game hunting trip in Canada.	
Powder Smoke-----	4
The Rifles of Yesterday—Part III-----	5
By N. H. ROBERTS	
Hunting Experiences With the Krag-----	14
By ALDEN MCKIM CRANE	
Possibilities With a Gas-Check Bullet-----	17
By E. E. HASKELL	
A Real Sidearm-----	18
By V. E. LAYNE	
A Glance-Proof Lead-Alloy Bullet-----	20
By F. C. NESS	
Savannah Stages First Official Tournament-----	23
By GEOFFREY B. KING	
Those Texas Colt Revolvers—Some Correspondence--	24
The New Bond Type D Loading Press-----	25
Rifling in a Shotgun Barrel-----	26
By CAPT. EDWARD C. CROSSMAN	
N. R. A. News Items-----	30
Dope Bag-----	41
Arms Chest-----	51

Published monthly by the National Rifle Association of America, Barr Building, Washington, D. C.—C. B. Lister, *Managing Editor*; L. J. Hathaway, *Editor*; F. C. Ness, L. Q. Bradley, *Associate Editors*; F. A. Moulton, *Advertising Manager*. 25c per copy. By subscription \$3.00 a year in U. S. and Possessions; foreign \$3.60. Entered as second-class matter, April 1, 1908, at the Post Office at Washington, D. C., under Act of March 3, 1879. Thirty days' notice required for change of address. Copyright, 1935, by the National Rifle Association of America.

# POWDER SMOKE

---

## A Great Opportunity—Do Not Miss It!

**T**HE Congress of the United States has just placed in the hands of President Roosevelt, four billion dollars to be used in an effort to put on a salary basis all persons now on relief rolls. Four billion dollars is an enormous sum of money, but the committees which are handling this fund have been working day and night on methods of proper and equitable distribution throughout the United States; and as this editorial is being written, one billion dollars, or twenty-five per cent of the money, has already been allocated.

If the shooting game—both rifle and pistol—throughout the United States suffers from any one deficiency more than another, it is from lack of proper range facilities. The organization of a club is easy where several men who are interested in shooting get together. The thing that is hard, however, is to keep the new club alive. The only way to build up interest, and maintain it, is by actually firing on the range. Yet there are hundreds of clubs in this country trying to live and shoot, but without range facilities that are adequate.

It is suggested, therefore, that in every community throughout this nation where adequate range facilities are not now available, the club officers immediately take advantage of the wonderful opportunity presented by the relief program and the money made available under the recently-enacted law. There are two channels through which this money may be secured: first, the Public Works Administration, and second, the Emergency Relief Administration. These two federal agen-

cies have engineers in every state, and representatives in practically every county throughout the nation. These engineers are charged with studying every project presented within their respective states, and making recommendations to Washington.

A rifle-range program throughout this country would do two things, namely: give employment to the needy, and give much-needed range facilities to the shooters. While there are two channels of approach as indicated above, it is our opinion that the second one—the Emergency Relief Administration—gives us the better approach and is the one which promises speedy and satisfactory results. The engineers in every state, under the Emergency Relief Administration, have not only in their possession funds for the employment of labor, but they are authorized also to furnish reasonable amounts of money for the purchase of material.

It is urged, therefore, that all clubs now laboring under the handicap of inadequate range facilities, immediately, through their proper officials, contact the local relief officials and prepare and forward requests for the construction of the needed ranges. All that is required is a little effort in the prompt and correct preparation of the estimates of your needs, and the presentation of these facts to the proper local authorities.

If rifle and pistol shooting has progressed satisfactorily in the past, it should go forward by leaps and bounds with proper range facilities available in the future. This is a wonderful opportunity, and we urge you to take advantage of it.

# The AMERICAN RIFLEMAN

JUNE, 1935

## The Rifles of Yesterday

By N. H. ROBERTS

### Part III: Target Rifles

ON MY ninth birthday my "favorite uncle" gave me a little muzzle-loading percussion-lock .30-caliber (170 bullets to the pound) rifle, and ever since then I have been very fond of target-shooting with the rifle. During my rifle-shooting experience of about fifty years, I have owned or had the unlimited use of a large number of target rifles, both percussion-lock muzzle-loaders and breech-loaders, in about all the popular calibers from .22 R. F. to the .44-105-520 and .45-100-550 Sharps, as well as rifles for the modern high-power smokeless cartridges as these have appeared on the market. It was also my good fortune while living in Canada to have the use of a number of very high-grade English target rifles made especially for the matches at the famous Bisley range. Furthermore, I served a total enlistment of more than sixteen years in the National Guards of New Hampshire, Vermont, Connecticut, New Jersey, New York, and Virginia, and shot on company, regimental, or state rifle teams in nearly all those states. Thus I became familiar with the .45-70, .50-

SHARPS "LONG RANGE CREED-MOOR" RIFLE, .44-105-520

70, .236 U. S. Navy, 7-mm., .30-40 U. S. Army, .303 British, .30-'06 Springfield, and other military rifles.

During the early part of my rifle-shooting experience I was "financially embarrassed" to such an extent that I could have but one rifle at a time, wherefore I spent a number of years looking for an "all-around rifle"; that is, an arm that would be equally satisfactory for woodchucks, deer and bear, as well as for target-shooting up to about 350 yards. In the course of that search I bought, thoroughly tested on as much game as possible and at the target, and then disposed of, most of the repeating and single-shot rifles described in the first two parts of this article. By that time I had

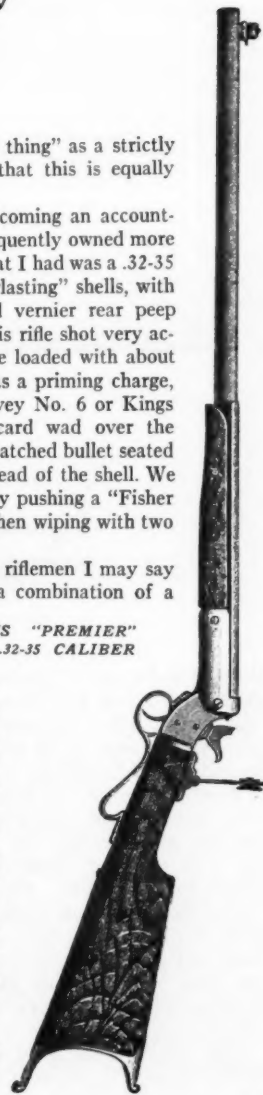
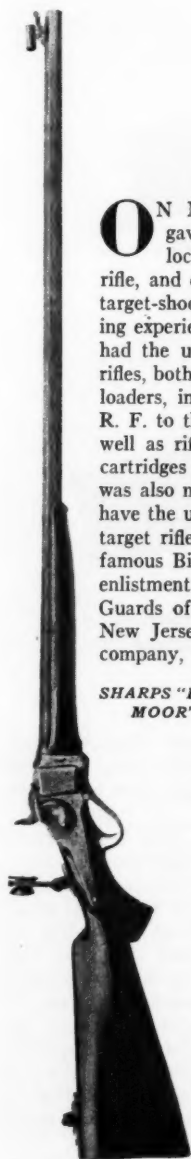
learned that "there ain't no such thing" as a strictly *all-purpose* rifle; and I believe that this is equally true today.

After leaving the farm and becoming an accountant, I had more money and consequently owned more rifles. The first real target rifle that I had was a .32-35 Stevens "Premier," for the "everlasting" shells, with 28-inch half-octagon barrel, and vernier rear peep and wind-gauge front sights. This rifle shot very accurately when the cartridges were loaded with about 5 grains of FFFg black powder as a priming charge, 28 to 30 grains of Curtis & Harvey No. 6 or Kings Semi-Smokeless Cg on top, a card wad over the powder, and the 165-grain paper-patched bullet seated in the breech about 1/16 inch ahead of the shell. We cleaned the rifle after each shot by pushing a "Fisher Cleaner" through the barrel and then wiping with two cloth patches.

For the benefit of the younger riflemen I may say that this "Fisher Cleaner" was a combination of a bristle brush about 2½ inches long, at the forward end, behind which were several rubber

STEVENS "PREMIER" RIFLE, .32-35 CALIBER

rings spaced about ¾ inch apart and slightly larger than the bore of the rifle. The latter were to wipe out the moisture and the fouling loosened up by the brush. In use the Fisher Cleaner was kept in a can of water on the floor of the shooting-house, and after firing a shot the rifleman took the cleaner out of the can, shook off the surplus water, pushed it through the barrel, from breech to muzzle, and let it drop back into the can of water. Then he took a wooden rod, slotted at each end and carrying pieces of cotton cloth in





both slots, and pushed one end through the barrel to wipe out any moisture left by the Fisher Cleaner, and reversed the rod and pushed the second cloth through, and was ready to load the rifle for the next shot.

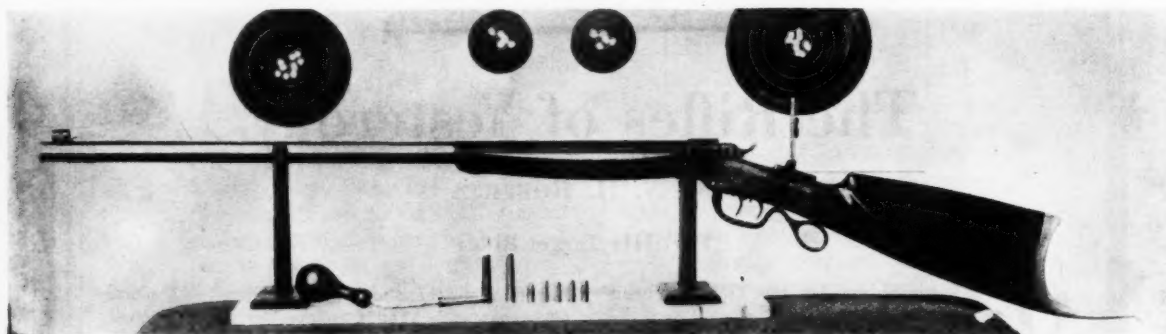
However, it was customary to use only one or two cartridge shells in an afternoon's shooting; therefore after cleaning the rifle as above we placed it in the "stand," decapped the fired case, scraped out the fouling with a "scraper" (which looked like a screwdriver with both sides of the blade parallel and square-edged), put in the new primer, loaded the priming

membership each man could have but two sighters and ten record shots in an afternoon on ranges where but one sliding target was installed. We always used the double target, usually had two wind flags on the range between the shooting-house and the target, and the better ranges were equipped with an anemometer to show the wind velocity, as well as a wind-dial with a vane and pointer to show the direction of the wind.

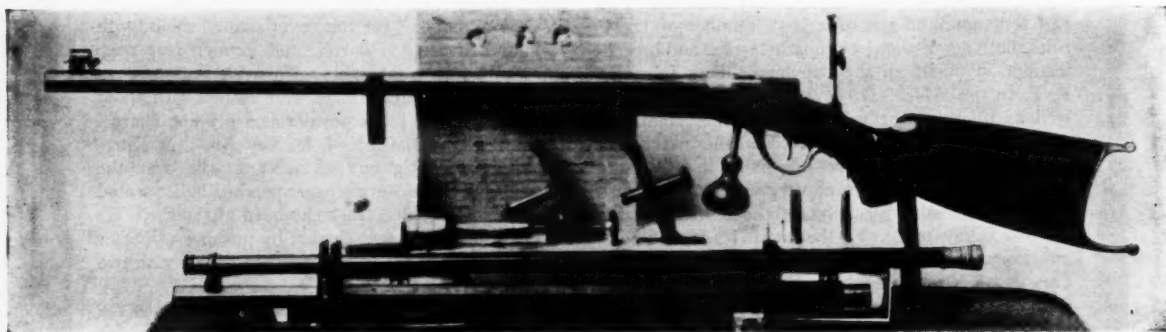
The N. R. A. target used, when I was a boy, had an 8-inch square bull counting 4, a 2-foot square inner counting 3, and the rest of the 4 x 6-foot target counting 2,

so-called "Massachusetts Target," which was a combination of the Ring Target and the Creedmoor, with 8-inch bull counting 5 by Creedmoor count, or 11 and 12 by Ring count, the 12-ring being 4 inches in diameter.

About 1882 the so-called "Massachusetts Decimal Target" was introduced, and became popular with rifle clubs. This target measured 4 x 6 feet, with a count from 1 to 10. The bull was 8 inches in diameter, the 10-ring being 3½ inches and the 9-ring 5¾ inches. There were also many other kinds of targets, with varying dimensions, used in different sections of the



SCHOYEN-BALLARD, .32-40 CALIBER, AND TARGETS MADE AT 200 YARDS, REST



ZISCHANG-SHARPS-BORCHARDT, .32-40 CALIBER, AND 200-YARD REST GROUPS

charge and the rest of the load with the old Ideal No. 6 or Pope powder measure (the charges filling the case about even full), put the wad on the powder, seated the bullet in the barrel with a bullet-seater or dummy cartridge, and then, when one's turn came to shoot, loaded the case into the rifle *after reaching the firing point*, and fired the shot; repeating this procedure for each shot. We called that "target-shooting," and there were hundreds of rifle clubs in this country where from half a dozen to forty or fifty men met each week to shoot at 200 yards, standing "on their hind legs" and shooting offhand.

That certainly was a lot of work and little shooting. If the club had a large

and was the standard until April, 1875, when the N. R. A. voted to adopt the Creedmoor target with 8-inch bull, 26-inch center counting 4, 46-inch inner counting 3, and the rest of the 4 x 6-foot space counting 2, as in our standard Army target today. However, the civilian rifle clubs used many different targets, among which were the "German Ring," measuring 2 feet square, with circles ¾ inch apart counting from 1 to 25. This bull was 12 inches in diameter and included the 18 to 25 count, the 25 center being 1½ inches in diameter. We also had the so-called "Ring Target" 2 feet square counting from 1 to 12, with 8-inch bull counting from 9 to 12, the 12-ring measuring 2 inches in diameter. In New England they used the

country, so that when scores were published it was necessary to state the target used; all of which was more or less confusing.

In 1885 "*The Rifle*"—great-grandfather of our fine AMERICAN RIFLEMAN, was first published, and one of the first jobs the Editor tackled was that of getting the rifle clubs to adopt a standard and uniform target. About that time Maj. Charles W. Hinman of the Massachusetts Rifle Association designed the target now known as the "Standard American," and after much work on the part of the Editor of "*The Rifle*," the rifle clubs of the country adopted that target early in 1886 for 200-yard shooting, and it has been mostly used since then by all rifle clubs.

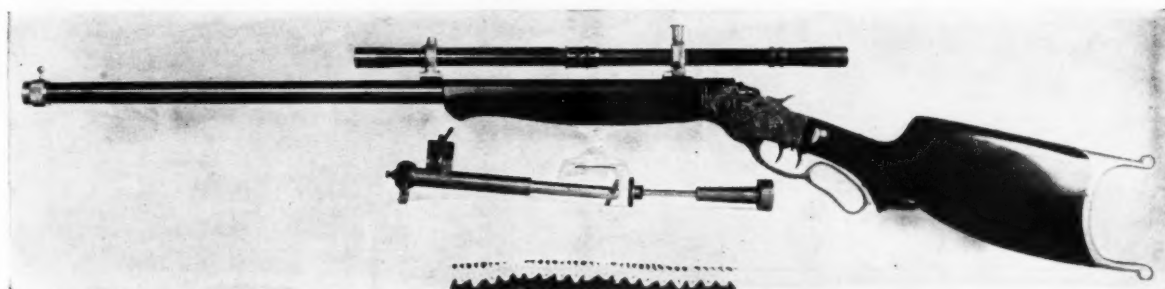
In 1885-86 the Army, Navy, and National Guard used the elliptical target designed by Capt. S. E. Blunt of the United States Ordnance Department, and I think I fired about half a ton of those old 500-grain .45-caliber bullets at these targets at from 200 to 800 yards with the various .45-70 military rifles that I have used. However, this was to be a discussion of target rifles rather than of targets.

As said before, I found that the Stevens "Premier" rifle was very accurate when used in the manner described, but that was *too much work and too little shooting*. Then some rifle crank discovered that by

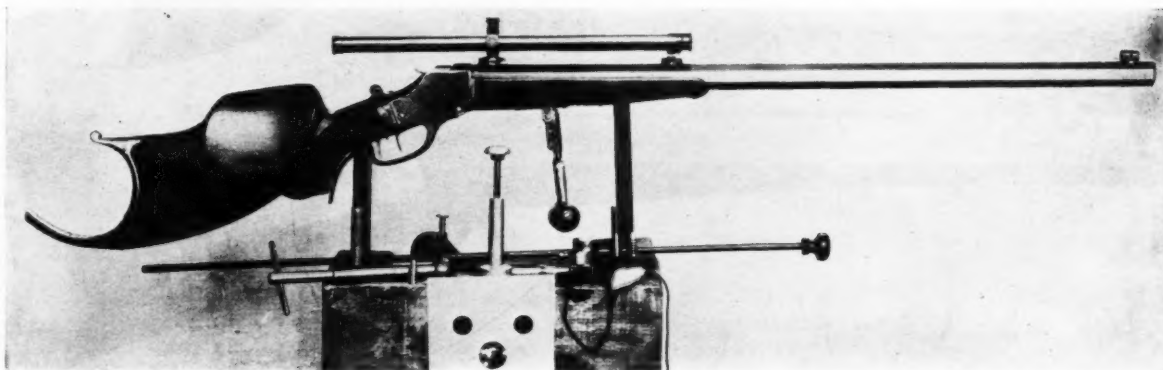
shell stuck in the chamber; and I always carried several extra extractors to the range, and frequently was obliged to install new ones during an afternoon's shoot.

With the best loads, this .32-35-caliber rifle averaged about 1½-inch groups at 100 yards, rest, and 3½ to 4-inch groups at 200 yards, with 165-grain paper-patched or lubricated bullets. There was also a 153-grain lubricated bullet for this cartridge, which was used when we desired to seat the bullet about half its length in the shell. Loaded in this manner, with smokeless priming, this bullet averaged about 1¾-inch groups at 100 yards, and 4-inch at

American Schuetzen riflemen usually preferred the Ballard No. 6 Schuetzen rifle, with 32-inch barrel in .38-55 caliber, and weighing from 13 to 15 pounds, as they generally used the palm rest in shooting. I well remember when the late William Milton Farrow was the most noted offhand shot in this country, and his favorite rifle for many years was the Ballard No. 6½ in .38-55 caliber. Later Mr. Farrow invented and made the Farrow rifle, the action of which was a modification of the Ballard action, and an improvement on it; but the Farrow rifles were largely hand-made and consequently expensive, and they were



AUTHOR'S .28-30 POPE-STEVENS MUZZLE-LOADING RIFLE, WITH BULLET STARTER AND LUBRICATING PUMP



SCHOYEN-WINCHESTER, .32-40 CALIBER

using 3 to 5 grains of duPont No. 1 Rifle Smokeless powder or duPont Shotgun Smokeless, or Hazzard or "E. C." shotgun smokeless, as a priming charge, with the rest of the shell filled with good black powder or Kings Semi-Smokeless, and a wad over the powder and the bullet breech-seated, he was able to shoot all afternoon without the trouble of cleaning the rifle. This system, called "dirty shooting," was soon adopted by practically all target-shooters except the older German-American Schuetzen men, and continued in use until the smokeless rifle powders became reliable and gave good accuracy. The chief fault of the Stevens "Premier" rifle, and of all of their tip-up models, was its weak extractor, which usually broke if a

200. With this 153-grain bullet breech-seated ahead of the shell, the groups would average about as small as those made with the 165-grain bullet, when weather conditions were good.

The Ballard No. 8 "Union Hill" rifle, with 28-inch half-octagon barrel in .32-40 caliber, pistol-grip stock, double-set trigger, and vernier rear and wind-gauge front sights, was my next target rifle, and I wish I owned it now. The Union Hill, and the No. 6½ Ballard with barrel made by John Rigby, of London, were for many years the most popular and most accurate breech-loading target rifles on the market, and one or the other of them was used by a great number of American shooters for offhand 200-yard work. The German-

not used as extensively as the Ballard.

Much has been written about the Ballard rifle by far abler writers than myself, and this rifle is quite generally known as one of the *most accurate target rifles* ever produced. The only other target rifle that was equal to or surpassed the Ballard in accuracy and popularity was the Maynard No. 16 rifle. From about 1885 to about 1898 these two target rifles were used by a greater number of target shooters for 200-yard offhand work than all other makes of rifle put together. As an illustration in point, permit me to quote from my records, as follows: "June 17, 1887, I visited the noted Walnut Hill Range near Boston, where I saw such noted riflemen as Major C. W. Hinman, W. M. Farrow, O. M.



TOP TO BOTTOM: AUTHOR'S .40-70 "LONG RANGE" SHARPS-BORCHARDT; ZISCHANG-WINCHESTER. .32-40; SCHOYEN-BALLARD WITH 'SCHOYEN "OFFHAND" STOCK; MAYNARD NO. 16 RIFLE, .32-35 CALIBER

Jewell, E. F. Richardson, G. H. Wentworth, J. B. Fellows, J. N. Frye, D. L. Chase, N. Washburn, Salem Wilder, and about twenty other expert shots taking part in the "Spring Meeting" of the Massachusetts Rifle Association. Every man that I saw except E. F. Richardson, W. M. Farrow, F. J. Rabbeth, and A. C. White used Maynard or Ballard rifles of .32-40 or .38-55 caliber. Rabbeth used a Remington .35-caliber, Richardson and White used Bullard .32-40's, Farrow used a .32-40 Farrow rifle. I checked up 25 shooters and found 13 were using Maynard, 10 Ballard, 1 Remington, and 1 Farrow in that group." This shows how

the Maynard and Ballard rifles ranked in popularity at that time. And, strange as it may appear, not one Winchester S. S. rifle was used by any of those experts at that match, which lasted for three days.

My Ballard "Union Hill" rifle, loaded with 5 grains of duPont Shotgun Smokeless for priming and the rest of the shell filled with Kings Semi-Smokeless C. G., a card wad on the powder and the 185-grain paper-patched or lubricated bullet, gave very fine accuracy at from 100 to 300 yards, without cleaning between shots. It would average about 1½-inch groups at 100 yards, 3 to 3½-inch groups at 200 yards, and 6-inch groups at 300 yards, rest

shooting, using aperture front and vernier peep rear sights, or full-length 12X Malcolm telescope. However, I was not in those days an expert shot, and could not make as small groups as more skillful marksmen. During the years from 1886 to about 1895, a large number of very fine scores and remarkably small groups were made by the experts at 200 yards with Ballard and Maynard rifles. We have numerous records of 10-shot groups made with these two rifles at 200 yards, rest, that measure from 1½ to 2 inches on centers of bullet holes. Very few, indeed, of our modern high-power rifles of any caliber are capable of making such groups





TOP TO BOTTOM: BALLARD "OFFHAND" RIFLE, .40-70; SCHOYEN-WINCHESTER, .32-40 CALIBER; WINCHESTER "SCHUETZEN" NO. 3 RIFLE; WALKER-REMINGTON-HEPBURN, .38-55 CALIBER. THIS WAS DOCTOR HUDSON'S RIFLE

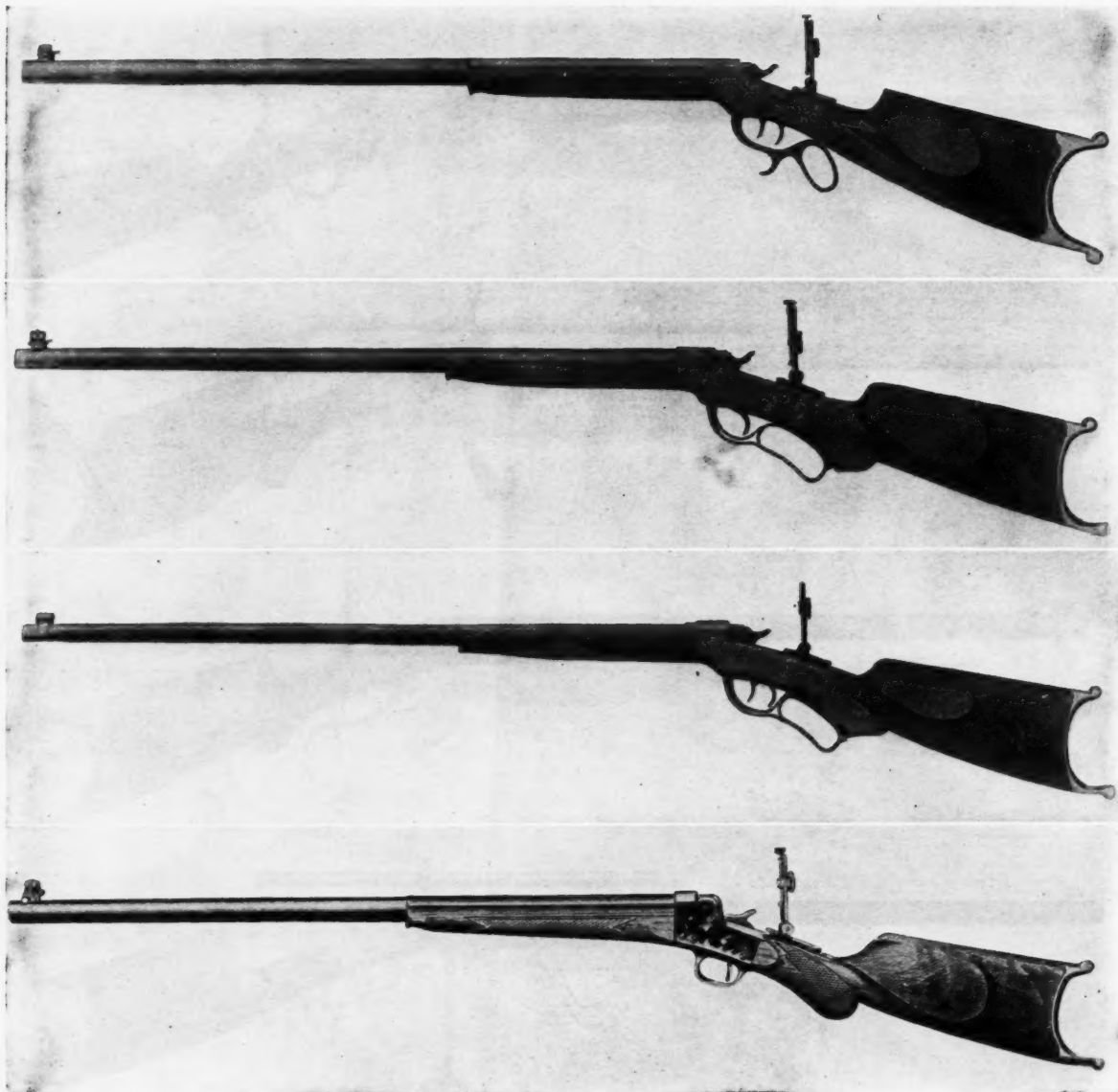
at this range. A group is shown as an illustration of the splendid accuracy of the Ballard rifle in the hands of a real "expert" of those days, and there are still some of those old Ballards in existence that will make equally small groups at 200 yards today.

During the late '80's and early '90's the Maynard No. 16 rifle in .32-40 and .38-55 calibers was even more popular as a target rifle than was the Ballard, and was preferred by many of the best experts of those days. It certainly was a very fine and especially accurate rifle, as the records of the rifle clubs show. The interchangeable barrels, in calibers from .22 R. F. to

.38-55 and .40-70, all fitting the same action and stock, were a feature that greatly appealed to riflemen; and this, coupled with the super-accuracy of the barrels, led to great popularity for these rifles. I recently saw a fine Maynard No. 16 rifle with eight separate barrels, all of different caliber, including a shot barrel, all the barrels fitting that one action, and the entire outfit in practically new condition. However, as much hand-work was employed in making the Maynard rifles they were more expensive than other makes, and largely on this account their manufacture was discontinued about 1895. Riflemen who now own these fine May-

nard rifles prize them very highly, and with the right load most of them will still shoot more accurately than the majority of shooters can hold.

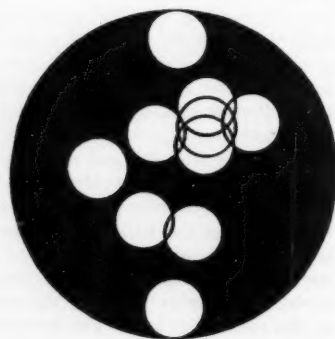
While I have always much admired the Maynard rifle, I have never owned one, though for about two years I had the unlimited use of a fine No. 16 Maynard in .32-40 caliber, and shot it a great deal at 100 and 200 yards, both offhand and with rest. My records show that this was the *most accurate* factory-made rifle that I ever used. The targets illustrated here that were made with the Maynard No. 16 rifles show the splendid accuracy of these arms. Get out your pet high-power rifle,



TOP TO BOTTOM: BALLARD "SCHUETZEN" RIFLE, NO. 6; BALLARD "OFF HAND" RIFLE, NO. 6½; BALLARD "UNION HILL" RIFLE; REMINGTON-HEPBURN "MATCH RIFLE"



LEFT: TEN CONSECUTIVE SHOTS AT 200 YARDS, BENCH REST, BY JAMES W. CARVER WITH AUTHOR'S ZISCHANG-BALLARD .32-40-200 AND 12X MALCOLM SCOPE. RIGHT: TEN-SHOT GROUP MADE WITH .32-40 BALLARD "UNION HILL" AT 200 YARDS REST IN AUGUST, 1887. APERTURE FRONT AND VERNIER REAR SIGHTS WERE USED, AND RIFLE WAS NOT CLEANED BETWEEN SHOTS. GROUPS EXACT SIZE



with the best loads, and try to duplicate these groups; and without doubt, after much shooting you will learn that your modern rifle simply *will not* make such groups at 100 and 200 yards.

The Remington-Hepburn No. 3 Match Rifle was quite popular in many sections of the country during the 1880's and 1890's, and was furnished for a large number of cartridges, the most popular calibers being .32-40 and .38-55. These rifles were made with half-octagon barrels, half-pistol grip stocks of nicely grained walnut, wind-gauge front and vernier rear sights, and double-set triggers. The Remington Arms Company furnished fine double-set triggers on these rifles for \$3.50 extra, which was much less than other riflemakers charged. The Remington match barrels were very carefully made and gave fine accuracy, but the half-pistol grip was not curved enough to be of any real help in holding.

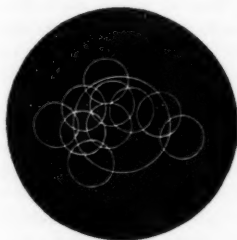
I have owned a number of Remington-Hepburn rifles of different calibers, and

ahead of the case; which load gave very fine accuracy. With the above sights this load would average 3- to 3½-inch groups at 200 yards rest, and with my Sidel 12X scope it frequently made 2½-inch groups. For offhand shooting I used the vernier and wind-gauge sights, and the Sidel scope for rest shooting. That rifle had one marked peculiarity: it gave fine accuracy with only ONE kind of lubricant on the bullets. When the bullets were lubricated with a mixture consisting of two parts of ozocerite and one part of vaseline, the rifle made groups as above, but no other lubricant that I could find would make it shoot as well. I bought the arm cheap because the owner said it would not shoot accurately, but I believed that he did not know how to prepare the right load for it. Extensive tests showed that it shot very accurately with that one lubricant, and NO OTHER. However, this rifle was really too heavy for me for offhand work, as my last score in an afternoon was invariably poorer than my first; therefore I disposed of the rifle, and got a Stevens Ideal No. 44½ "Walnut Hill," with 28-inch No. 3 half-octagon barrel in .32-40 caliber,

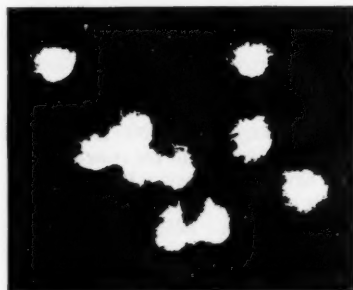
wind-gauge front and vernier rear sights, and double-set trigger. I also had an extra

each day, and at the end of that time this fine barrel was badly pitted for nine inches at the breech. Thus I ruined one of the finest-shooting factory-made barrels that I ever owned. I do not recommend the use of this powder in soft-steel barrels.

I then commenced using the .28-30 Stevens barrel on this same action, and after considerable experimenting I found two loads and bullets that gave as fine accuracy as had the .32-40 barrel that I ruined. These two loads were: First, a black-powder primer, 5 grains bulk of Semi-Smokeless Fg as a priming charge for 16 grains weight of duPont Schuetzen smokeless, a felt wad (cut from an old hat) over the



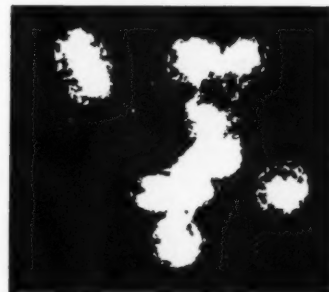
UPPER: TEN SHOTS AT 100 YARDS REST WITH .32-35 MAYNARD NO. 16 RIFLE. LOWER: TEN SHOTS AT 200 YARDS REST WITH .32-40-200 POPE-WINCHESTER. GROUPS EXACT SIZE



all of these proved to be very satisfactory, accurate, and reliable arms. A rifle club in New York State, of which I was a member, used this No. 3 Match Rifle in .38-55 caliber almost exclusively for both offhand and rest shooting; therefore I secured one of these rifles with 30-inch heavy octagon barrel in .38-55 caliber, with double-set trigger, and wind-gauge front and vernier rear sights, the rifle weighing about fifteen pounds, and used it for some two years in offhand shooting at 200 yards. With that rifle my best load consisted of the case nearly full (about 24 grains weight) of duPont Schuetzen smokeless, a card wad on the powder, and the 330-grain lubricated bullet cast 1 to 30 and seated

barrel of the same size and length for the .28-30 cartridge, that fitted this same action.

This Stevens "Walnut Hill" rifle was much better for me than the heavy .38-55 Remington-Hepburn for offhand shooting, and was fully as accurate for rest shooting with telescope sight. Stevens barrels have always been noted for their fine accuracy, and this particular .32-40 barrel proved to be an especially accurate one. It gave its finest accuracy when the cartridges were loaded with a black-powder primer, 4 grains bulk of FFg black powder for priming, the rest of the shell filled with duPont Schuetzen smokeless, a card wad over the powder, and the 185-grain bullet cast 1 to 32, lubricated with a mixture of ozocerite and vaseline, and seated about 1/16 inch ahead of the case. With that load one could fire one hundred shots without cleaning, and the last shot would be as accurate as the first. That rifle, with that same load, would average 1¼-inch groups at 100 yards rest, and less than 3-inch groups at 200 yards, with telescope sight. Then "Sharpshooter" smokeless powder came on the market, and of course I had to try it. I used that powder for three afternoons' shooting, cleaned the rifle with the greatest of care



UPPER: TEN SHOTS AT 200 YARDS REST WITH .32-40-180 POPE-BALLARD. LOWER: TEN CONSECUTIVE SHOTS AT 200 YARDS WITH .32-40 POPE RIFLE IN MACHINE REST. GROUPS EXACT SIZE



powder, and the 132-grain Sage bullet cast 1 to 32, lubricated with the ozocerite-vaseline mixture, and seated about 1/16-inch ahead of the shell. Second load, a black-powder primer, 6 grains of Fg black powder to prime 34 grains bulk of duPont No. 1 Rifle Smokeless and Schuetzen smokeless well mixed together in equal parts bulk measure, a felt wad on the powder, and the 136-grain Pope bullet cast 1 to 32, lubricated as above, and seated in the breech 1/16 inch ahead of the shell. The Sage bullet was designed by my friend F. J. Sage, the mould being made by the late J. H. Barlow of the Ideal Manufacturing Company; and the bullet has proven to be one of the most accurate .28-caliber bullets yet made. It has a rather large, flat point that cuts a larger hole in the target than other .28-caliber bullets; which larger hole aids in scoring, as it is practically as large as that made by a .30-caliber bullet, often adding several points to a score.

Either of the above loads will give about



1¼-inch groups at 100 yards, rest, and 3 to 3½-inch groups at 200 yards, with telescope sight and under good weather conditions. The .28-30 caliber has been a favorite of mine for more than thirty years. I have owned several different rifles for this cartridge, and now have a fine Stevens Ideal No. 44¼-52 with engraved action, 28-inch Pope muzzle-loading barrel, false muzzle, starter, fine stock with pistol grip, double-set trigger, Pope lubricating pump, and two Pope bullet moulds casting three different weights and shapes of bullet. Also I have a fine Peterson 30-inch breech-loading barrel that fits this same action. Both of these barrels are very accurate, and frequently make 1-inch groups at 100 yards rest, and 2½-inch at 200 yards, with telescope sight and under favorable weather conditions.

For twenty years I used for shooting woodchucks the Stevens .28-30 rifle with different makes of telescope sights, and with one such rifle I killed more than one thousand chucks in four years. The best chuck load was the second one mentioned above, with the 132-grain Sage bullet or the Ideal hollow-point, seated friction-tight about three bands in the case, with no wad. This combination gives fine accuracy, and has good killing-power up to about 300 yards, but the trajectory is too high for the best results at ranges over 175 yards, unless one is an excellent judge of distance. Moreover, the lead bullet glances badly when a chuck is missed, and goes howling off across the country to cause damage or scare someone. However, in spite of these defects the .28-30 came as near to being an all-purpose rifle as any that I have ever found until the advent of the small-bore high-velocity smokeless cartridges and rifles.

The Bullard target rifle was quite popular for a number of years during the late '80's and early '90's. This rifle had a stronger action than the Ballard, as the Ballard breechblock was made from a solid piece of steel, whereas that of the Ballard is split vertically into two parts. The Bullard action operated very easily indeed, yet when closed the breechblock was solidly locked, and was safe under much heavier charges than the Ballard would stand. Numerous expert offhand riflemen of those days preferred the Bullard target rifles in .32-40 or .38-55 caliber, and made high scores with them. The workmanship on these rifles was strictly high grade, they were nicely stocked, and the barrels were very accurate; yet for some reason the sale of the rifle was rather limited, and the manufacture discontinued about 1896.

I owned a Bullard target rifle with 28-inch half-octagon barrel for the .32-40-150 Bullard cartridge, double-set trigger, fine pistol-grip stock, and vernier rear and wind-gauge front sights, which was one

of my favorite rifles for a number of years. This rifle gave fine accuracy when the cartridges were loaded with the shell full of duPont No. 1 Rifle Smokeless or Schuetzen smokeless, a wad over the powder, and the 165-grain lubricated bullet breech-seated in the same manner as before mentioned. This was a very nice cartridge for offhand shooting at 200 yards with either the 165 or 153-grain bullet, as the recoil was very light, no cleaning was required between shots, and the last shot in an afternoon was as accurate as the first. It averaged 1½-inch groups at 100 yards, and 3½-inch at 200 yards, rest shooting.

The Winchester Single Shot rifle is perhaps the best known to the majority of my readers, and was regarded by many experts as the best, strongest, and most durable single-shot rifle ever produced, while the accuracy of these arms was equal to that of most others with factory-made barrels. There is no question as to the strength of this action. In Winchester Single Shot actions with Mann-Niedner breechblocks, I have fired hundreds of experimental loads in the .25-caliber Krag-Niedner cartridge, that gave very high pressures, and I believe the action is perfectly safe with pressures of from 50,000 to 55,000 pounds. During my early experiments in search of a super-accurate high-velocity small-bore rifle for shooting woodchucks, I had two or three Winchester S. S. rifles with 26-inch No. 3 nickel-steel barrels chambered by A. O. Niedner for his .25-caliber Krag cartridge; and for several years I experimented extensively with that cartridge in those rifles, and in Stevens No. 44½ rifles, and wrote up the results of many of these tests for the Outers Book magazine between the years 1915 and 1918.

I have owned and used extensively about half a dozen of these fine target rifles in various calibers from the .25-20 S.S. to .38-55, all of which gave good accuracy and were very satisfactory in every way. I believe that my .32-40 Winchester target rifle was the most accurate low-pressure arm of this make that I have owned. I also had one of these rifles for the .30-40 Krag cartridge. It had 26-inch nickel-steel barrel, pistol-grip stock, and Winchester double-set trigger, and gave splendid accuracy at ranges up to and including 800 yards, which latter was the longest range at which I tested it. I believe that rifle maintained its zero for elevation and windage better than did any other high-power rifle I have ever owned.

I have also had a number of custom-made barrels of different calibers fitted to Winchester S. S. actions, these rifles being equipped with both single and double-set triggers, fine stocks, and telescope sights. One of these rifles had a Zischang 30-inch octagon barrel for the .32-35 Stevens

Everlasting shell, Winchester double-set trigger, nice pistol-grip stock, and a fine Sidel 10X scope with ¾ inch objective; which scope, incidentally, was one of the very *finest* target scopes I have ever owned, and I regret that I did not have sense enough to keep it. That was an extremely fine-shooting rifle with the shell primed with a black-powder primer, 5 grains of duPont Shotgun Smokeless as a priming charge for the rest of the shell full of Kings Semi-Smokeless CG, a card wad on the powder, and the 165-grain bullet cast 1 to 40 and seated in the breech ahead of the shell. Another very fine load was the same primer, 5 grains of Semi-Smokeless FFg, the rest of shell filled with duPont Schuetzen smokeless, a card wad, and the same bullet, breech-seated. Either of these loads would average 1¼-inch groups at 100 yards rest, and 2½ to 3-inch groups at 200 yards, with frequent smaller groups at each range; and the rifle gave such very uniform grouping—any day, every day—that it was a real pleasure to shoot it. There were no wild and unaccountable shots with this rifle and these loads, and if a shot were out of the group one could blame himself for it, and not the rifle. I still have a number of 10-shot groups made at 100 yards rest with this rifle, in which all shots would touch a dime; and some 1¾-inch groups at 200 yards, rest. All were shot with that Sidel scope.

It appears strange that the manufacture of this fine Winchester Single Shot rifle was discontinued, as there are many riflemen today who would like to have such actions for rebarrelling for several of our modern high-power cartridges. This action with a 28-inch No. 3 barrel for the .22 Niedner Magnum cartridge is wonderfully accurate at ranges up to 300 yards, and is just the very *finest* arm for crowd-shooting that I have ever found. I believe that action is every bit as strong as the English Farquharson falling-block action, which is really clumsy and ungainly as compared with the trim Winchester Single Shot.

Another of our finest target rifles was the Sharps-Borchardt, which action was remarkably strong, simple, durable, and symmetrical, with straight-line firing-pin that moved but ¾ inch, coiled mainspring, splendid trigger-pull, and stock attached by a strong bolt running through the length of the stock. As has been said before, this gives a very securely attached stock, and improves the accuracy of any arm. This was one of the favorite rifles of the expert offhand shots of years ago, and one of the late Dr. W. G. Hudson's pet rifles was a fine Sharps-Borchardt .32-40 with 30-inch octagon barrel, fine pistol-grip stock, and telescope sight. The late Mr. A. O. Zischang, one of the most noted barrel-makers of his day, regarded

the Sharps-Borchardt action as the *very best* in this or any other country. This rifle was made by the Sharps Rifle Co., of Bridgeport, Connecticut, and was furnished in various calibers, from .32-40 to .45-120-550. I remember that for many years this rifle in .40-70-330 caliber with 30 or 32-inch barrel, fine pistol-grip stock, and vernier rear and wind-gauge front sights, was one of the most popular of long-range rifles, and was preferred by many of the noted long-range shots of that time.

I have owned two of these fine Sharps-Borchardt rifles, one in .38-55 caliber and the other a .40-70-330, which latter I still have, and in practically new condition. The .38-55 was especially accurate, and this .40-70 also shoots very accurately with the right loads. A fine load for the .40-70 is a smokeless primer, 27 or 28 grains bulk of duPont Shotgun Smokeless, and a 300-grain bullet cast about 1 to 30 and seated friction-tight about half its length in the case. This gives nice accuracy at 200 yards, and is a pleasant load to shoot. It was recommended to me by Mr. Walter S. Waite of the Massachusetts Rifle Association, who has made many high scores with it in his .40-70 Remington-Hepburn rifle.

The higher grades of Sharps-Borchardt rifles had hard rubber or grained-walnut panels let into each side of the receiver, which added to the fine appearance of the arm. My own rifle has beautifully grained walnut panels that match the finely-grained stock and forearm, and this is one of my most prized rifles. Many riflemen today believe the Sharps-Borchardt to be the *very best action* for rebarrelling for modern small-bore high-velocity cartridges for vermin shooting and target work, and certainly there is *no better* single-shot action than this. It is really too bad that this splendid action is no longer made, as there are constant demands for it.

I attended the last match that was held on the old Creedmoor Range, I believe, and in that match I saw a large number of shooters using the old Sharps "Long Range Creedmoor" rifle in .44-105-520 caliber, which was one of the most popular long-range rifles at that time. Other shooters used the same rifle in .44-77-470 or .44-90-470 caliber, while the second most popular arm in that match was the Ballard long-range rifle using the same cartridges, or the .40-70-330, .40-90-370 Ballard, and .40-90-370 B.-N. cartridges. Also a good number of the contestants used the old Remington rolling-block rifles in these same calibers, while there were numerous other competitors using the .40 and .46-caliber muzzle-loading percussion-lock rifles of various makes. All used rifles with very long barrels—from 32 to 36 inches, and some of the muzzle-loading rifles had barrels of even greater length. All of the shooting at ranges from 500

yards and beyond was done from the various "back positions," and the breech-loading rifles were cleaned after each shot, as only black powder was used, smokeless rifle powder not having as yet been invented. I used a Ballard .40-90-370 in those matches in which I shot, but did not break any records as it was the first real long-range match in which I had participated.

I never owned a Sharps Creedmoor rifle, although I used one quite extensively for two or three years for long-range shooting. The one that I used was a .44-90-470 using the bottle-necked shell, and shot very accurately at from 500 to 1000 yards when it was not too windy. With that cartridge loaded with 90 grains of Curtis & Harvey No. 6, a grease-proof wad over the powder, a lubricating wad on top of that, and the 470-grain paper-patched bullet seated friction-tight in the shell, a really skilled long-range shot could make high scores at all the long ranges; scores that compare very favorably with those made with our present high-power rifles and cartridges.

During the years from about 1880 to 1910 we had a number of men in this country who furnished custom-made rifle barrels that were noted for their splendid accuracy, among whom the most famous were A. O. Zischang, George Schalk, George C. Schoyen, and several others, all now deceased; and L. M. Walker (still alive, I believe), as well as the noted Harry M. Pope, A. O. Niedner, and A. W. Peterson, who are all still with us. We all know that Mr. Pope has justly been called the world's finest rifle barrel-maker, while Mr. Niedner's barrels have for many years been almost as noted, as have also those by Mr. Peterson. All these great barrel-makers furnished either breech-loading or muzzle-loading barrels in all calibers from .22 R. F. to .38-55 or even larger, fitted to the best single-shot actions and specially stocked and sighted for 200-yard offhand and rest-shooting; and these rifles would make most remarkably small groups at this range or at 100 yards. I have never yet owned a Schalk or Walker barrel, but now have Zischang, Schoyen, Pope, Peterson, and Niedner barrels in various calibers fitted to Ballard, Stevens, and Winchester actions.

The *finest-shooting* Schuetzen rifle that I have owned had a Zischang 30-inch .32-40 octagon barrel on a Ballard action, double-set trigger, fine pistol-grip stock, and telescope sight. That rifle, using cartridges loaded with a black-powder primer, 5 grains of duPont Shotgun Smokeless and the rest of the shell filled with duPont Schuetzen smokeless, a felt wad on the powder and a 200-grain bullet cast 1 to 25, breech-seated ahead of the shell, would make  $\frac{3}{4}$ -inch groups at 100 yards rest, and 2-inch groups at 200 yards rest, and frequently smaller groups—any day, every

day—when weather conditions were good. With this .32-40-200 Zischang-Ballard rifle loaded as above, using my 12X Malcolm scope and shooting from bench rest at 200 yards in the presence of witnesses, I made numerous 10-shot groups that measured from  $1\frac{1}{8}$  to  $1\frac{3}{4}$  inches on centers of bullet holes farthest apart, and many dime-sized groups at 100 yards. This was absolutely the very finest-shooting, *most uniformly accurate* rifle at 200 yards that I have ever owned, and like Diogenes of old I have for many years been "looking with a lantern" for a modern high-power rifle that could be *depended upon* to give such *uniformly fine accuracy* at 200 yards as this Zischang-Ballard gave. But I have never found such a rifle.

My friend H. A. Donaldson now owns a large number of the finest Schuetzen rifles with Schoyen, Zischang, Walker, and Pope barrels, and some of the groups that he has made at both 100 and 200 yards rest shooting with these rifles are so extremely small that I do not care to show them in print, lest both friend Donaldson and myself be brought under suspicion. Mr. C. W. Rowland, a gentleman now over 70 years young and living in the West, has used for more than fifty years many of the finest Schuetzen rifles ever made, and with his Schoyen and Pope .32-40 rifles he makes such remarkably small groups at 200 yards rest, with telescope sight, that none are ever released for publication, as they would involve him in endless arguments and subject him to suspicion. However, we *know positively* that his groups are true.

Another very fine target rifle was the Remington-Walker muzzle-loader that was made by the Remington Arms Company from about 1902 to 1905. This arm was made with an action having the under-lever and breechblock so arranged as to force home a partially inserted shell. It could be used as a breech-loader or muzzle-loader in the same way as the Pope rifles, and the Walker barrels were noted for their very fine accuracy. Some of these rifles made groups that have never been surpassed by any make or caliber of rifle yet produced, and this was one of the favorite rifles of the late Dr. W. G. Hudson; the .38-55 Remington-Walker rifle illustrated having been made especially for Doctor Hudson. This rifle makes wonderfully small groups at 200 yards rest, and is now owned by my friend Donaldson.

What would you, Reader, say if you were shown a 10-shot group made at 200 yards rest, in which *every shot struck in a circle the size of a dime*? Quite probably you would say that no such groups were ever made, and that any man claiming to have made such groups was a ———! However, just look at the groups shown  
(Continued on page 28)



A WILD BOAR AND GROUP OF TURKISH HUNTERS, WITH AUTHOR SECOND FROM LEFT

## Hunting Experiences With the Krag

By ALDEN MCKIM CRANE

**A**LTHOUGH I have several expensive rifles equipped with all the latest gadgets, whenever I go on a long and hard trip, out of reach of all gunsmiths, I invariably carry my old dollar-and-a-half Krag carbine.

I was first introduced to the Krag when, as a small boy in the Philippine Islands, I used to go deer hunting with an American soldier named Brizendine, or as I called him, "Breezy." He had a Krag carbine with which he was a remarkably good shot, and it was with this carbine that I killed my first deer, a small four-pointer which came to drink at a little jungle pool.

Breezy and I had been hiding in a clump of bamboo for several hours before the buck appeared, and I shall never forget the thrill I got from seeing him mincing along the game trail, stopping from time to time to sniff the wind, and finally coming to a standstill beside the pool, with his head upraised and his ears cocked forward. Breezy nudged me with his elbow, and I raised the rifle. The barrel shook and quivered, but finally the sights lined up and I squeezed the trigger. The gun roared and the buck gave a leap in the air, fell over on his side, and lay still.

Several years later I bought a Krag carbine of my own through the National Rifle Association. I equipped it with a pistol-

grip stock and an aperture rear sight, and save for those two items I have never had to spend a cent on it, which is more than I can say for some of my high-priced weapons. It was not a new gun when it came to me, and I have often wondered what tales it could tell if it were able to speak. Did it go to Cuba with Roosevelt and the Rough Riders—did it help civilize the Philippines—or did it merely do garrison duty in the hands of some soldier, until its place was taken by a Springfield? Whoever carried it before it came to me took care of it, as the barrel and action were (and still are) in perfect condition.

I first tried out my carbine in the limestone district of western Maryland. This is one of the best places I have ever seen for woodchucks, which during the warm-weather months may be seen in nearly any field between Frederick and Hagerstown; and the farmers always extend a warm welcome to any careful rifeman who cares to shoot the little pests. On one occasion, after showing an old farmer four chucks which I had shot in his oat field, I was given a drink from a stone jug which ruined my shooting eye for several hours. I never did know what was in that jug, but it was powerful stuff.

The first chuck I ever shot with the Krag was basking before his den in the

warm May sunshine. The den was on a slight slope, and seventy yards away and running parallel to the slope was a grass-covered ridge. I had spotted the chuck one morning a week before, but was unable to get a shot at him. However, I went to the ridge one afternoon about four o'clock, and carefully wiggled to its crest on my stomach. The high grass concealed me but I could see that old chuck sleeping away on the opposite slope. He would snore for a moment, then raise his head, have a look around, and go back to sleep again, repeating the same performance every minute or so. I watched him through the glasses for a time, and then, adjusting the sling on my rifle and getting the sights lined up, I let him have it. When the Krag barked the chuck leaped about a foot in the air, fell on his back, and lay still. I found that the 180-grain bullet had caught him in the shoulder, killing him instantly. I shot several more groundhogs that spring, and found it to be fine sport; something like bear-hunting, without the danger and hard work.

From Maryland I went to Oklahoma, and there tried the Krag on the numerous pests found on the prairies. There was a large and densely populated prairie-dog village quite near our house, but I shot only one dog with the Krag. He was about fifty yards away, and the bullet must have



struck him amidships, because all I was ever able to find was part of his head and one hind leg. And incidentally, a prairie dog prepared by a good cook tastes exactly like squirrel. But if you intend to eat one don't shoot him with a Krag.

Most parts of Oklahoma are infested with jackrabbits, and while it is good sport to shoot them on the run with a rifle, it is even better sport to run them with hounds; hounds in this case being the popular bandy-legged beagles. It is certain that chasing them with hounds is more popular with the rabbits. They are not difficult to hit on the open prairie even when running, but I have yet to see a beagle catch a jackrabbit, unassisted. There are very few beagles in Oklahoma, but my father and I had two shipped to us from Missouri. In due course of time they increased to eight. They were funny little fellows, and always went about with the most serious expressions on their faces. And they all seemed to have but one aim in life, which was to catch a rabbit. We used to take them out nearly every afternoon during the cool weather, and although they would always chase one or more of the long-eared gentry, they were never able to catch one. We used to follow them on good horses, and found it to be great sport.

One afternoon I happened to be carrying the Krag in a boot slung from my saddle, and when a rabbit jumped up right in front of us I leaped from my horse and, dragging the rifle out, managed to hit the bunny with the second shot. He had not had time to get moving fast, and the little hounds were right behind him. The moment the bullet struck him the rabbit turned a flip in the air, and the dogs were on him. The excitement was intense. Each small hound got a firm hold on some part of that unfortunate rabbit, and pulled. We never did know whether or not the rabbit was killed by the bullet, because there was absolutely nothing left of him after those little hounds were through. However, from then on my life was a misery, for every time we took the pups out they expected me to shoot a rabbit for them, and would overwhelm me whenever I got off the horse.

Rebel, the leader of the pack, was a very sagacious dog and one of the few hounds I have ever seen that could find 'coon and 'possum during

the day. He and I were hunting companions, and several afternoons a week we would start off together for a creek near the house which had a heavy growth of willows and underbrush along its banks, with a good deal of hardwood on either side of the willows. There was much game in that place, but due to the tangle of the undergrowth it was almost impossible to see anything. However, Rebel would disappear, and after a while I would hear his melodious voice; and when it changed from a deep bay to a short yap-yap, I would hurry to where he was. Sometimes he would have a squirrel up a tree, and other times a 'coon or a 'possum in a hollow log. One day he found something in a log, and as I had a cold in my head we did not learn until too late that it was a skunk.

One Christmas Mr. Mathews, an American gentleman ranching in Mexico, very kindly invited my father and me to hunt on his place. This was fifty miles across the border from Laredo, and was in a hunter's paradise. Deer, rabbits, quail, and even ducks were plentiful. The ducks, however, were found only on the large tanks which held the water supply for the cattle. We stayed on that ranch for two weeks, but each managed to get his buck the second day. Mine was running broadside to me and about seventy-five yards away. The bullet caught him just above

the heart, and he stopped in his tracks. I was surprised, as I had often heard that a deer being hit in the heart will always run some distance before falling.

While in Oklahoma, the Krag failed me for the first and only time since I have had it. I was coming home from a friend's house one evening just at dusk, when I saw a coyote crossing a pasture fifty yards away. I stopped the car and, reaching for the Krag—which I usually carried behind the seat—began to load. I had run out of cartridges the day before, and when I went to town to get more I found that the local dealer was out of them, though after rummaging around in his store he finally produced a box of military cartridges. They were in very poor condition and had been manufactured about 1900. And those were the ones I was cramming into the magazine on this occasion. When the magazine was full I snapped shut the cover and worked the bolt, but the latter refused to close all the way. The coyote was still within eighty yards, and did not appear to be in much of a hurry, I opened the bolt and found that the neck of the shell had split, and that the bullet was stuck in the barrel. I was afraid to jam the shell in after the bullet, and fire the gun, and by the time I got a section of the ramrod out of the butt trap and had dropped it through the barrel and knocked the bullet out, the coyote had disappeared. Though I haunted that place for a year I never saw another coyote.

On one occasion a certain friend of mine was very anxious to shoot a coyote, and used to spend hours at a time hiding behind a large rock on the prairie and scanning the country with a pair of binoculars. He often saw

#### YA YA, AN OLD TURKISH HUNTER

coyotes at a distance, but never close enough to shoot, until one afternoon he saw a pack of hounds chasing one toward him. It was coming straight for the rock, and my friend picked up his rifle and made sure that it was ready. There were some men on horseback following the hounds, but they were nearly a mile behind. When the coyote was fifty yards away my friend gave him the works. The first shot did the trick, and as soon as the coyote fell the man ran out from his hiding place, picked up the still-kicking animal, and rushed to



his car, which was out of sight behind the rock. The horsemen had witnessed the shooting of their quarry, and spurred forward with the intention of catching the culprit, in which case they would probably have lynched him; but by the time they reached the rock the car was out of sight down the dirt road.

From Oklahoma I went to Turkey, where there is a great deal of game for the rifleman. Deer, bear, and elk are plentiful in Asiatic Turkey, while wild boar and feathered game are to be found in nearly every section of the country. Although the wild boar resembles the domestic pig, the similarity ends there. The wild boar is much more active than his domestic cousin, and when cornered by a hunter he always puts up a good scrap. They will charge on little provocation. Furthermore, they are extremely hard to kill, and I have seen an old boar charge a party of hunters after he had been struck by eight bullets.

Because of the nature of the country they inhabit, the only way to hunt boars is by driving them with either beaters or hounds. A boar picks the thickest sort of cover to lie-up in during the day, and it is almost impossible to walk up on one. European forests are for the most part thicker than those in America, as they are cut over from time to time and the young growth forms a jungle-like tangle. Occasionally one may jump a boar in open country, but not often, and even then they are not easy to shoot, as they run with surprising speed.

Few European sportsmen use the rifle, most of them depending upon the shotgun for the greater part of their shooting. However, they usually carry one or two shells loaded with either buckshot or a single ball, in case they happen to run across a deer or a boar while hunting some other game. At best the accuracy of such loads is poor, but at close range they are very effective.

The first boar I killed with the Krag was driven out of a marsh by beaters. The District Superintendent of Agriculture near the ancient city of Troy wished to thin out the ranks of the wild boars in his area, as they were doing a great deal of damage to the crops; so he arranged a large hunt and very kindly invited an English gentleman and me to participate. The main part of the hunt took place in a large swamp that covered an area of several hundred acres. Save for a few islands the whole area was under about six inches of water, while the surface of the swamp, except for some large open spaces where the peasants had cut the grass, was entirely hidden from view by reeds and grass. At one edge of the marsh a small and bare hill rose, this overlooking the swamp on three sides, and a small lake on the fourth.

The Englishman and I stationed ourselves on one side of the hill, while the other hunters found vantage points along the open spaces scattered about the swamp. There were sixty beaters, and they were armed with rusty Martini Henry rifles which the Government had loaned them for the occasion. A few of them carried their own guns—for the most part muzzle-loaders which from their looks must have been two or three hundred years old. The Englishman had a Lee Enfield military rifle, while I had the old Krag.

We had not been on the hill long before the beaters commenced shooting, and yelling in Turkish at the tops of their voices. Suddenly a large boar broke cover below us, and ran across a clearing amid a perfect hail of bullets. He was absolutely surrounded by men, and they were all shooting at him. Why they did not shoot one another is a mystery to me. The Englishman and I were afraid to shoot for fear of hitting someone, but no one else seemed to bother about that. Those big Martini bullets would strike the shallow water and then skip a hundred yards or so. One buried itself at the Englishman's feet, scaring him half to death.

We hurried down the hill in time to see the old boar come to bay under a large clump of grass, and just as we got there the old fellow charged a beater. Fortunately for the latter, someone hit the boar in the head with a slug from a 12-gauge shotgun, killing him instantly. When we examined him we found that he had nine bullet holes in his body, any one of which would have immediately put any other species of animal of the same size right out of business.

We went back to our place on the hill, and had not been there more than five minutes when three half-grown pigs broke cover at our feet, and rushed up the hill toward us. We managed to knock over two, though the third got away. The one I shot was hit through the hind quarters, and did his best to get at me when I approached to finish him off.

We had no sooner gotten back to our stand when a huge boar charged up the hill and made straight for the Englishman. He raised his rifle and fired, but the boar did not slacken his pace. I saw the Englishman work the bolt of his rifle, but when he pulled the trigger the cartridge failed to go off. He worked the bolt again, and again the same thing happened; so thrusting field etiquette aside, I threw up my rifle and had the pleasure of seeing the boar fall as I fired. The 180-grain bullet had struck him in the head and killed him instantly. The reason that the Englishman's rifle had failed to function was that he had neglected to open the cut-off. The military Lee Enfield has a steel plate which swings on a pivot over

the magazine, instead of the ordinary thumb-piece cut-off.

We did not see any more boars for some time after the big one had charged up the hill, but there was plenty of shooting going on in the marsh. Just as I started to roll a cigarette I happened to glance at the little lake, and there saw a boar swimming across. Jumping up, I ran to the edge of the water in the hope of getting a shot, and just as I got there the boar emerged and began to climb the bank on the opposite side. Though quite a distance away, he made a good target, and I flopped down in the mud and, aiming at his shoulder, squeezed the trigger. As the Krag roared I saw the mud fly up beneath the boar's feet. He started to run, and I held about a foot over his back and fired again. That time spray flew from the boar's side, and he disappeared in the tall grass. I was not sure that he was dead, so ran around the edge of the lake and cautiously approached the place where I had last seen him. There he was, stretched on his side and quite dead. The 180-grain soft-point had entered his chest cavity and exploded, making mince-meat of his heart.

I personally do not care for this type of hunting, and do not consider it true sport. It cannot compare with deer hunting as it is done in America. That boar hunt was arranged primarily to kill as many of the animals as possible, and fourteen of them were accounted for.

The Christians among us butchered the boars they had shot, and ate the meat; but the Turks, who are all Mohammedans, would not touch the dead boars, let alone eat them.

Two months later I went to a Polish settlement in the interior of Asiatic Turkey. The country there reminded me a great deal of the mountainous districts of Pennsylvania, but it was less thickly settled and there were no small farms scattered about as there are in America. European farming is carried on differently from that in America. Instead of each farmer living on his plot of land, they all live in small villages and go to their fields each day, returning to the village at night. There are few fences to be found, and game, especially deer, is plentiful. The deer most encountered is the little roebuck, a small animal weighing not more than eighty pounds. They do not travel in bands, but in pairs, and one seldom sees more than one of them at a time. The best deer country is found where there are many steep and thickly-wooded hills, with the valleys overgrown with heavy growths of willow. The only way to hunt in country like this is to use deer hounds, as one could never approach close enough to a buck to see him.

There was an old Polish hunter with  
(Continued on page 29)

# Possibilities With a Gas-Check Bullet

By E. E. HASKELL

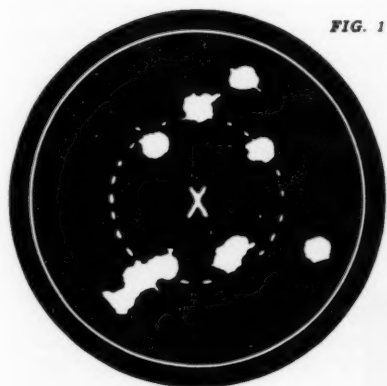


FIG. 1

for the .250-3000 was next tried, ahead of 12 grains of No. 80 powder. This combination shot well, and I should have stuck to it had I not found something better in the 85-grain bullet. With the latter I had results so promising that I ordered from Lyman a mould and a No. 1 lubricator-and-sizer with .259-inch die.

The six cuts of targets, which are reproduced exact size, illustrate the possibilities of this bullet when used in the .250-3000 Winchester, N. R. A. model, ahead of 11.5 grains of No. 80 powder. All the shooting was done from the prone position with rest at 100 yards, using the Lyman 48 rear and 17-A front sights, with both the transparent disk and the small

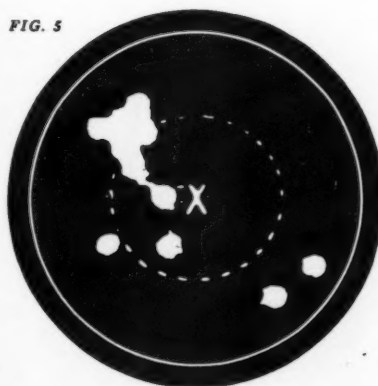


FIG. 5

**D**URING the fall of 1933 I spent considerable time in developing a cheap and accurate load for the .250-3000 cartridge, and the results were so satisfactory that other users of .25-caliber rifles may be interested.

At the outset I purchased from the Lyman people a supply of each of the following bullets: 80-grain No. 257388; 100-grain No. 257418, and 85-grain No. 257312. The 100-grain bullet looked so good to me that I began my work with it, using No. 80 powder as the propellant. However, in spite of the fact that I tried charges that were increased one grain at a time, from 12 to 17, I was unable to obtain groups that were at all satisfactory. With the lighter charges many of the bullets keyholed and flew wide of the target when shooting at 100 yards. As the powder charge was increased the groups narrowed down somewhat; however, even the 17-grain charge would not make the bullet behave, and I concluded that the 14-inch twist of the Model 54 Winchester was insufficient properly to handle a 100-grain bullet at relatively low speed. I discarded this bullet rather reluctantly.

The 80-grain gas-check bullet designed

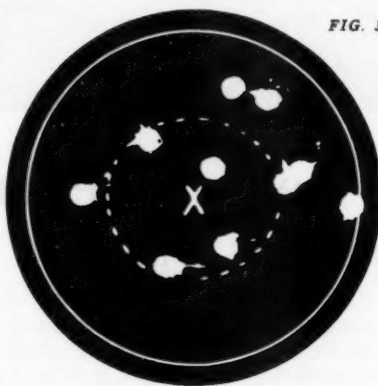


FIG. 3

post in the 17-A. The targets are not selected ones, numbers 2 and 3 having been made in actual competition on September 19, and numbers 4, 5, and 6 on September 24. Target No. 1 was the first good group obtained in the experimental shooting, and it indicated to me the possibilities of the combination. Each group contains ten shots.

Close grouping with gas-check bullets can be obtained only by the most careful

attention to details. The first essential is the fit of bullet and barrel. Measurements showed that a diameter of .259 was correct for my barrel. However, when the tools came from the factory, though I found the resizing die to be a perfect one, the mould dropped a bullet smaller than the diameter of the die; hence it went back to factory. The die was tested by putting through it a bullet known to be oversized, and then measuring this bullet with micrometers. The bullet was rotated slightly and measured again, and the turning and measuring continued until the bullet had gone through an entire revolution. If the sizing die is out of round, this process will reveal the fact. Faulty dies and moulds are by no means rare, and the shooter who would make possibles must do some measuring of barrels and bullets, and also dies.

In casting bullets to shoot possibles, one should, in addition to the usual procedure, keep the mould screws tight, and give the metal in the mould time to get hard before striking the cut-off. If the cut-off is struck too soon, a ragged hole

(Continued on page 29)

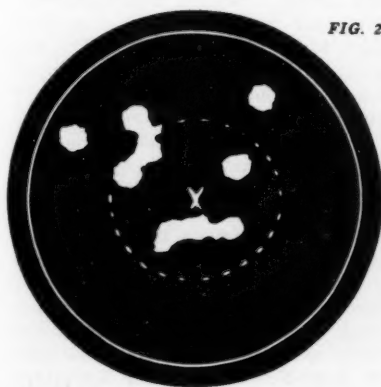


FIG. 2

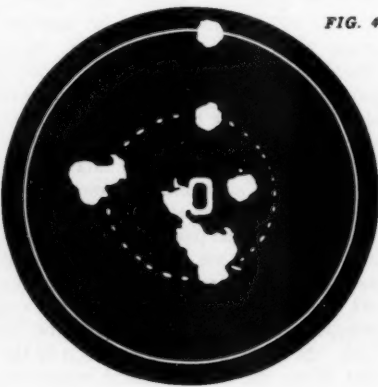


FIG. 4

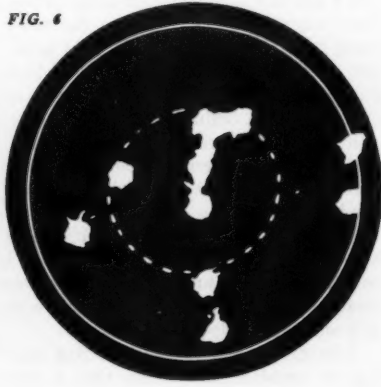


FIG. 6





## A Real Sidearm

By V. E. LAYNE

**I**T WAS time to buy a new handgun—that much was certain. Every real pistol devotee will recognize the almost irresistible urge for a new weapon which overtakes all followers of pistol-shooting at certain times.

My gun cases already contained many fine specimens, among them a .22 Colt Officers' Model, a .22 Ace, a Super .38, a .45 Service Automatic, a .38 Colt Officers' Model, and a .45 1917 Smith & Wesson with target sights, as well as several pocket guns. It would seem that in this collection the field of handguns should be fairly well covered, and indeed it is; but still I felt that although each of my pistols filled a certain place, each, on the other hand, had certain limitations. The problem then was to find a handgun which had as few objectionable points and as many desirable features as possible. The gun would be used for target-shooting, small game, and perhaps some trick and aerial work—a sport of which I am very fond. Therefore, a heavy weapon with long barrel, target sights, and a fine smooth action was indicated; and as I was already well supplied with medium-power pistols, it was felt that a big-bore gun should be selected.

A letter was sent to the Dope Bag, stating my problem, and in due time a very

courteous and helpful reply was received. Catalogues were consulted, and a visit was made to a large hardware store, where several big-bore revolvers were inspected. As a result my choice definitely settled upon a Colt New Service Target revolver with 7½-inch barrel, and chambered for the .45 Colt cartridge. At this point some of my readers may wonder why the .45 Colt was selected in preference to the .44 Special, so a few words of explanation may be in order. For one thing, the .44 Special has a bad reputation for developing leading troubles with handloads, and in addition a careful study of powder-company pamphlets showed that the .45 Colt is still the most powerful handgun made when standard charges are used. Then, too, at present there is no factory-loaded ammunition which anywhere near does justice to the possibilities of the .44 Special as regards power, though the factory product is very fine for target work. The .45 Colt ammunition, however, can be had in black-powder factory loads which develop real power, and the factory smokeless loads are just as pleasant and as accurate for target purposes as are the .44 Special. Another factor is the romantic history and associations of the .45 Colt. It is the gun that was used in the Old West; the first successful center-fire

revolver cartridge, and the arm about which countless stories have been told and written.

With both the gun and the caliber settled upon, in view of the fact that hand-loading would be employed, it was very desirable, if really fine results were to be obtained, to have the reloading tools and bullet-sizing dies—and also the bullet moulds—of the correct dimensions for the particular barrel and cylinder. The first step was to select the best possible bullet, and samples of all .45 Colt bullets were secured from the various mould makers. After much study of the many fine samples submitted, it was finally decided that the one best bet was the Belding & Mull bullet No. 454250. This bullet has a very blunt point for good shocking-power, and cuts a splendid round hole in target paper. It carries plenty of lubrication, and has a bore-bearing section well forward. It is also good and heavy, so that long-range accuracy can be expected. All these are very desirable features, and in addition the shape of the forward portion of this bullet is such that it gives a good entrance into the barrel breech without any tendency to swell or crack the barrel at the rear end. This bullet was chosen in preference to either the Bond-Ness or the famous Keith-Ideal



bullets, as both of these, with their sharp heavy forward bands, have, when cast hard and used with maximum loads of No. 80, been known to crack barrel breeches. For under maximum loads, however, they work extremely well.

An order was placed with Belding & Mull for a mould to drop bullets .455" in diameter, to avoid the necessity of excessive resizing. The loading tools were ordered from the Pacific Gun Sight Company, as were also the bullet-sizing die and top punch to fit my Ideal bullet-sizer. The die was ground to a dead size of .454". In due time all the equipment arrived, and upon measurement the dimensions were found to be within one quarter-thousandth of the exact sizes ordered. Right here I should like to express my appreciation of and entire satisfaction with the splendid precision work of the Pacific Gun Sight Company. Four sets of their tools have given perfect satisfaction in my hands.

I now found myself in possession of a complete set of tools (except shell-resizing die), but no gun to use them for. Clearly it was high time to order the gun. Without a knowledge of the dimensions and shape of the bullets, however, I could not give the special directions and specifications to the Colt Company which I felt were necessary to secure the results I wished. These specifications were for a strictly standard .45 Colt New Service Target revolver: one with a true .452" bore, cylinder chambers measuring .455", and the tapered lead in the barrel breech to be rather short and shallow so that my bullet would enter up to the first groove-bearing band, but no farther. A pair of selected pearl stocks made to

my special dimensions was the last word in gratifying my vanity for what I hoped would be a super-gun.

After much anxious waiting on my part the revolver arrived, and everything proved to be exactly as ordered. The barrel was exactly .452", and a sized-and-lubricated bullet of .454" diameter was a snug push fit in each and every one of the cylinder chambers; while the slope or lead in the barrel breech was a perfect fit for my bullet, and very smooth. Trigger-pull was very light and crisp, and some thoughtful workman had polished the contact surfaces on the rebound lever so that the double-action was very fast and smooth; the most perfect double-action, in fact, that I have ever found on a Colt gun.



A supply of bullets was prepared of a temper of 1 to 10 tin and lead, and weighing 246 grains when sized and lubricated. New Remington cases of recent manufacture and without the bullet-seating cannellure were obtained, and were of the old black-powder length of 1.3", as distinguished from the size used for smokeless loads which measures 1.1" long. Primers were Remington No. 2½ and Winchester No. 111, nonmercuric and non-corrosive. Both makes have given splendid results, although the Remington appeared to be slightly the more powerful. In the matter of cartridge cases, those of Remington manufacture in this caliber have a slightly wider rim than do other makes, and for this reason are desirable as they are more securely held in the loading tools. The cases were always resized full-



length in the Pacific tool-steel die, which was ground to the correct size from sample cases fired in the gun. Full-length resizing is a desirable practice in loading straight-sided pistol cases, and appears to make them last longer.

The details and procedure of developing suitable target and field loads is so generally known and so well covered in all the loading handbooks that no mention of this will be made here, except to say that it is a very fascinating business for any lover of firearms. And while at times it causes some preconceived ideas to be discarded, it brings knowledge of a gun that cannot be acquired in any other way.

In a comparative test for accuracy at 25 yards, using the factory smokeless loads of Remington manufacture against all combinations of handloads, the factory product proved to be so extremely accurate that in spite of all efforts to best it with handloads, we were not able to do so.

The following table will show that the .45 Colt with modern dimensions and loads is still away out in front in power.

**Remington Ballistic Table**

	Bullet weight grains.....	Velocity feet-seconds..	Muzzle energy foot-pounds..
.38 Special Hi-Speed.....	158	1125	445
.38 Super Colt Automatic....	130	1300	490
9-mm. Luger.....	124	1213	405
.44 S. & W. Special, black....	246	820	370
.44 S. & W. Special, smokeless	246	770	325
.45 Colt Automatic.....	230	810	335
.45 Colt, black.....	250	910	460
.45 Colt, smokeless.....	250	770	330

(Continued on page 28)



**FIRST BLOOD FOR THE NEW  
BULLET—A HUSKY CHUCK**



## A Glance-Proof Lead-Alloy Bullet

By F. C. NESS

**S**HOOTING and shooters all too frequently have been condemned by residents of settled rural districts on account of the whine of a ricocheting lead bullet. Whether the offending piece of lead comes from a .22 or .45-caliber rifle, and whether near or far, its whine is alarming, and our grand sport receives another black eye from the anti-gun people.

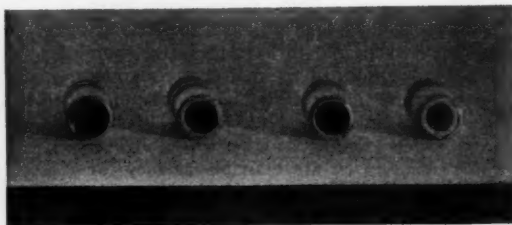
Of course we all know that the very safest load for chuck-shooting is one employing an expanding jacketed bullet driven at sufficient velocity to positively blow it to pieces upon impact with game, earth, stone, or wood, even at flat angles. However, many handloaders, in these times especially, have found real economy in using lead-alloy bullets cast by themselves. Unfortunately, the most accurate, or at least the most popular, lead-alloy bullets heretofore available are among the worst offenders in this matter of ricocheting, because their solid construction and curved points cause them to glance on the slightest provocation. Ricochets may sometimes endanger human life, livestock, or property—especially in settled regions, and they are at all

times objectionable, and should be avoided.

Larry Hathaway, Editor of this magazine, had been studying this matter of lead-bullet ricochets for some time, and one day when we were at lunch together he took a pencil from his pocket and sketched the design of a bullet which he believed would be immune from serious ricochet under practically all conditions encountered in the field. It was Larry's intention to go ahead and thoroughly test this bullet for both ricochet and accuracy, but he was delayed in beginning these tests, and as the bullet appeared to me to have interesting possibilities, I decided to get into the thing myself, as I believed that there was a definite need among many of our N. R. A. members for a bullet of this

kind. It was not easy to get started, for we received no encouragement from any of the manufacturers of bullet moulds and reloading tools. When urged, some two years or so ago, to consider our design of a non-ricocheting lead-alloy bullet, none of them displayed any interest in the matter. This attitude may perhaps be explained as being the result of a natural hostility on the part of conservative managements toward radical departures from the conventional; and our bullet was certainly unorthodox in design, and was, in fact, of the very poorest ballistical form, it being fundamentally a plain cylinder. And not until a new and more progressive manufacturer entered the bullet-mould field did we encounter any interest.

**THE FOUR WEIGHTS OF BULLET, LOOKING "POINT"-ON**



About a year ago George A. Hensley, of 752 State Street, San Diego, California—maker of fine bullet moulds—saw possibilities in our bullet, and immediately made up some experimental moulds. These were tried out in a general way to develop any minor faults, and then a new mould was made, with a set of four plungers for forming as many different cavities in the nose of the bullet; the bullet, by the way, being a gas-

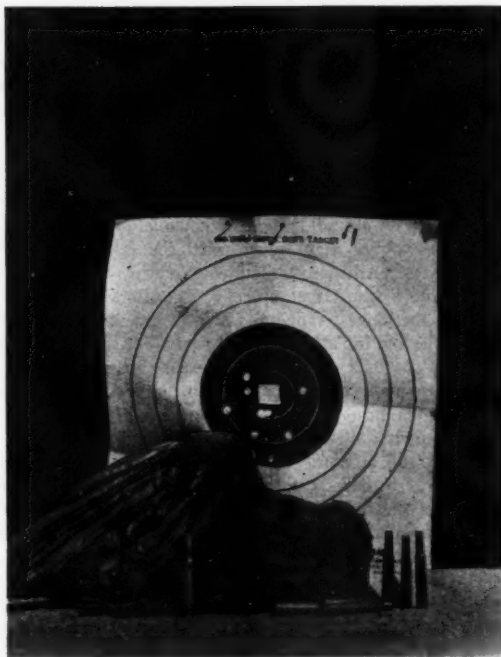
**THIS CROW WAS DROPPED DEAD AT 85 YARDS, FROM SITTING POSITION. IN ALL OF OUR TESTS THE SHOOTING WAS DONE FROM PRACTICAL HUNT-**

check. These different bullets have been undergoing test in a number of .30-caliber rifles since early last fall, Krag, Model 1917 Sporters, and other rifles in .30-'06 caliber being used.

Our first concern was, of course, the elimination of ricochets. We used suitable loads of Pyro D. G. and Hercules Lightning, and fired at flat angles against hard-packed ground, frozen earth, rocks, etc. To date we have not had a single ricochet under any conditions, and this with several hundred shots. At 100 yards large sheets of paper and cardboard were used to catch the fragments of lead after impact with the ground, the largest piece caught being a distorted fragment from one bullet which apparently had broken in half upon impact. This same bullet mould was later shipped to M. A. Cooper, at Rome, Ga., for test, and he also reported no ricochets.

Our next concern was the matter of accuracy for chuck-shooting over the short ranges common to settled communities, and for which this bullet had been especially designed; and we decided that a reliable grouping in a 3¼-inch circle at 100 yards would be acceptable. However, we hoped ultimately to be able to extend the range to 150 yards. While our first loads of Pyro D. G., Lightning, and HiVel No. 2 seemed as accurate as factory loads and Service ammunition in the same arms, these powders did not burn properly in the small charges required with these relatively light gas-check bullets, and we found I. M. R. No. 1204 and Hercules No. 2400 far superior in both Krag and Springfield for velocities around 1900 f.-s.

These bullets, in the hard metal we were using, weighed 115 grains for the lightest bullet, and 135 grains for the heaviest, this weight depending upon the shape and size of nose cavity employed. With the No. 3 plunger we obtained a bullet weight of 130 grains. Our metal contained from 7½ to 10 per cent of antimony, so as to give the alloy brittleness and insure the bullet's breaking up upon impact with any object. The antimony of course raised the melting point of the mixture, and made higher velocities possible.



**ING POSITIONS, WITHOUT ARTIFICIAL REST. THE TARGET SHOWS A TYPICAL 100-YARD GROUP**

the most accurate for the higher velocities, while the lightest one was safest against ricochets at velocities as low as 1750 f.-s.

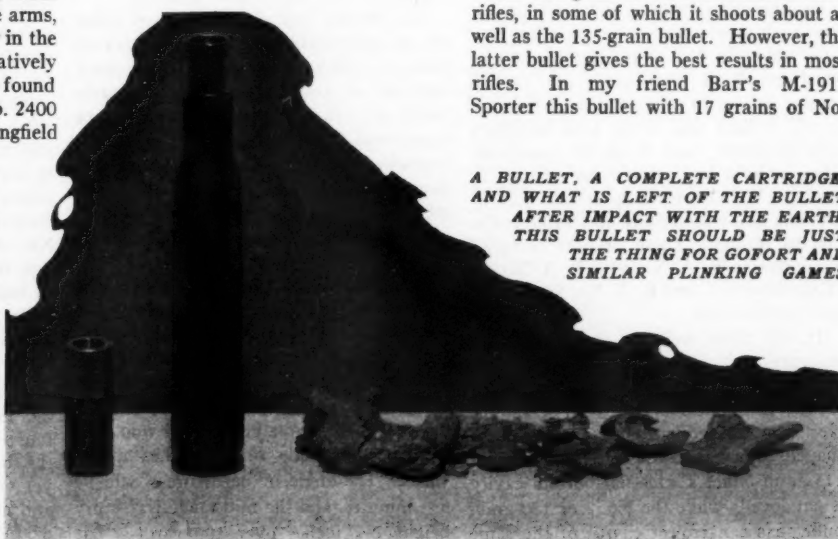
M. A. Cooper tried the lightest bullet in his M-1917 rifle but gave it too high velocity, thereby obtaining only one group as small as 2¾ inches at 100 yards. With charges as high as 21.5 grains weight of No. 2400, or 23 grains of No. 1204, our best .30-'06 groups—obtained with the 135-grain bullet—measured 2¼ and 2¾ inches at 100 yards. These were the best groups obtained with my .30-'06 Mauser, which has a worn throat, excessive headspace, and a .310-inch groove diameter.

It also obviated leading difficulties, as well as giving us the maximum bullet diameter of .314-inch. One disadvantage of the high antimony content of this mixture was the low specific gravity as compared with softer alloys, which lowered the sectional density and made it more difficult to get accuracy.

Happily, we never had a trace of leading in either American or German-made barrels with groove diameters running from .3082 to .3125-inch, and bullets sized .308, .309, .311, and .313-inch, even at velocities as high as 2200 f.-s. at the muzzle. The heaviest bullet proved to be

bullet diameter of .311-inch, and Remington cases, performed the best. With the 135-grain bullet as cast (.314-inch) in this rifle, we obtained groups appreciably smaller than three inches at 100 yards, with 15 grains and 22.5 grains of No. 2400 powder, and with 25 grains of I. M. R. No. 1204. We could not get the 115-grain bullet to shoot satisfactorily in .30-'06 rifles or in the Krag, except at very low velocities. Because it is best adapted for moderate loads and relatively low velocities, I would recommend this 115-grain bullet only to those who like to use No. 80 powder for reasons of convenience.

The 130-grain bullet does better in most rifles, in some of which it shoots about as well as the 135-grain bullet. However, the latter bullet gives the best results in most rifles. In my friend Barr's M-1917 Sporter this bullet with 17 grains of No.



**A BULLET, A COMPLETE CARTRIDGE, AND WHAT IS LEFT OF THE BULLET AFTER IMPACT WITH THE EARTH. THIS BULLET SHOULD BE JUST THE THING FOR GOFORT AND SIMILAR PLINKING GAMES**



2400 or 22 grains of No. 1204 powder gave groups slightly under  $3\frac{1}{4}$  inches at 100 yards. His best load, consisting of 19 grains of No. 2400, gave a group smaller than  $2\frac{1}{2}$  inches at 100 yards. He used F. A. 1923 and F. A. 1929 cases, the bullet being sized to .311-inch. Later, in N. M. cases and 1926 cases, these loads grouped  $2\frac{1}{4}$  and  $3\frac{1}{4}$  inches at 100 yards.

In the heavy-barrel International Match Martini, the best bullet diameter was found to be a .309-inch, the best results being obtained with F. A. 1931 cases, which appear to be appreciably heavier and stronger than our F. A. 1929 cases. In this rifle 19 grains of No. 2400 gave a  $2\frac{3}{4}$ -inch group with the 135-grain bullet, 21.5 grains of this powder shooting into  $3\frac{1}{4}$  inches. Incidentally, a different primer was used on each of the three occasions on which the load was tried. A charge of 20 grains of No. 80 powder shot into 3 inches with this bullet, except for two fliers out of the normal group. In the final check on the 115-grain bullet in this Martini target rifle, an odd thing occurred. Barr shot at 57 measured yards with five different loads, and got a  $2\frac{3}{4}$ -inch group and practically the same center of impact in each instance. His loads were 18 grains of No. 80, 23 grains of Lightning, 27 grains of HiVel No. 2, 19 grains of No. 2400, and 22 grains of No. 1204.

To date our best results have been obtained in my 22-inch Krag with the 135-grain bullet sized .311-inch. This Krag appears to prefer Western cases and 19 grains weight of I. M. R. Powder No. 1204. Barr tried it only twice at 100 yards, getting  $1\frac{7}{8}$  and  $2\frac{3}{8}$ -inch groups. Oddly enough, this is our least accurate .30-caliber rifle with factory loads.

C. A. Francis did the initial bullet-casting and handloading for our ricochet tests, while Alvin Barr made all the bullets and loads for the accuracy test—which latter have taken more than a full week of our time each month for several months. We used old-style No. 4 Babbitt metal and Ideal gas-check cups until our supply became exhausted, after which we resorted to old bullets and scrap lead hardened with antimony, and B. & M. gas-check cups, without any appreciable change in results. We also used up several lots of primers, also without any noticeable variation in results. These primers included old corrosive R. A. No. 9½, R. A. No. 39 (Experimental), and R. A. No. 8½ Klean-bore nonmercuric.

In all three weights, the new bullet measures .867 (nearly  $\frac{7}{8}$ ) inch long, and is of the same dimensions throughout except the cone-shaped cavity. In the No. 4 or 135-grain bullet a pointed V-shaped cavity is used. In the No. 3 or 115-grain bullet a wide flat-bottom cavity is employed; while the No. 2 or 130-grain bullet has a narrower cavity of the same

shape and depth. These weights are obtained with about 8 per cent of antimony in the alloy. Bullets containing a greater proportion of lead would be appreciably heavier, and should shoot more accurately. The center of gravity, or "balance-point," of these bullets is approximately at the bottom of the cavity or the lower edge of the middle band.

In no case did we get a keyhole, or sign of wobbly flight, even with the poorest loads. All these bullets cut a clean round hole in the target up to 125 yards, which is the longest range at which we tried this. The seating depth varied from  $\frac{7}{16}$ -inch to  $\frac{1}{2}$ -inch, according to the chamber throat of the rifle being used.

The nose portion of the bullet is of bore diameter, to ride the lands. Its sides are parallel and the end is square-edged and flat, so there is not the slightest tendency for the bullet to glance. Even on hard, flat surfaces it deforms or breaks up to an extent that positively prevents objectionable ricochets. On hard or loose ground the square nose bites in and holds. Even at flat angles this bullet invariably dug a hole and blew out a 2-inch crater in the hardest-packed soil we could find. It appears to act the same on water, damp sand, or wet clay. On water at 20 yards range we tried these bullets at flat angles of from 2 degrees to 5 degrees, and obtained only high geysers at point of impact, without any ricochets.

While no one would choose this bullet for maximum accuracy or for long-range work, it could with reason be selected for maximum killing effect on varmints over the ranges for which it was designed. It is the very safest lead-alloy bullet available. In any other design or shape, this same positive break-up upon impact could be secured only by loading lead bullets with dynamite, which we regard as a dangerous and undesirable practice.

The exterior ballistics of this new bullet are as unfavorable as might be expected from its cylindrical shape. By the usual methods of computation, the 135-grain bullet of .310-inch diameter would have a sectional density of .250 and a ballistic coefficient of .1087. As a matter of fact that latter figure happens to be a bit optimistic, and a fairer rating would be .088, which would mean a remaining velocity of only 1200 f.-s. at 100 yards with a muzzle velocity of 1900 f.-s. This is the distance at which our ricochet tests were conducted, and on this basis the average velocity over the 100 yards is 1550 f.-s., the time of flight being .193 seconds. The loss of velocity is 700 f.-s., and the deflection in a 10-mile cross wind would be 7 minutes of angle, or  $7\frac{1}{2}$  inches at 100 yards. The angle of departure would be  $6\frac{1}{2}$  minutes, and the mid-range trajectory height  $2\frac{1}{2}$  inches over 100 yards. The

drop between mid-range and 100 yards would be 3.4 minutes or 3.56 inches.

These figures check up about right, because in my Mauser the drop between 57 yards and 100 yards is 3 inches, and the angle on my sight is nearly eight minutes when zeroed at 100 yards. The trajectory height appears to be less than 2 inches, which however is not far from the calculated figure.

Our final check, after all the more or less monotonous work of loading and testing, was conducted in the gamefields. We hunted the vicinity of Washington, where glance-proof bullets are a necessity for safety's sake. Our first chuck fell to the Mauser on April 19, over a range of 35 yards and through a screen of weeds, vines, and twigs. The bullet pierced the chuck's heart, and came out of his neck on the opposite side. It gave a quick kill, and stopped the animal at the mouth of his burrow. The second chuck fell to the Krag on April 24, at twice the above range. This chuck was also struck below the left shoulder, but the bullet did not go through. The animal was killed inside of her burrow, and so effectively that her body jammed the entrance.

While these square-end bullets kill exceedingly well, they are apparently not easily deflected by heavy twigs and weeds, or light vines, as compared with the conventional bullets normally used on chucks. Also, instead of being deflected by thicker branches and saplings, or heavy vines, they are stopped right there.

In shooting at crows and hawks off the ground this type of bullet shortens the danger zone, because its maximum range is obviously short. The remaining velocity at 600 yards should be under 500 f.-s. Its extreme range would not be much greater than that of a ball or buck-shot of the same weight, and not as great as that of a .22 Long Rifle bullet. Essentially this is a short-range bullet for special purposes where extreme safety is demanded. It is effective at 100 yards, but not much farther.

The bullet can be used in any .30-caliber rifle. In the .303 British, .300 Savage, and 7.62-mm. Russian, I would suggest trying 18 grains weight of No. 2400 or 20 grains of No. 1204. In the .30-30 Winchester or .303 Savage, try 16 grains of No. 2400 or 17.5 grains of No. 1204 powder, behind any one of the three weights of bullet. Because of its square end, this bullet requires single-loading in the rifle, magazine feed being impracticable.

NOTE: Tests will be continued, with bullets fitted with pointed tips. We hope to find a material for the tips which will resist the shock of discharge and the air pressure, yet vanish upon impact with any object, and not affect the glance-proof properties of the bullet.—EDITOR.





THE MIAMI POLICE TEAM

# Savannah Stages First Official Tournament

By GEOFFREY B. KING

**T**HE First Annual South Atlantic Small-Bore and Pistol Championships were conducted by the Savannah Rifle Association under the sanction of the N. R. A. at Savannah, Georgia, April 15th to 18th, inclusive. The attendance, while not as large as that at Camp Ritchie or Camp Perry, was very encouraging, in view of the fact that this was Savannah's first open tournament and followed rather closely the Mid-Winter Championships in Florida.

There were, all told, eighty-five actual competitors, about half of whom were participants in the pistol events and the other half in the small-bore rifle matches. Contestants came from as far north as Connecticut, as far south as Miami, and as far west as Chicago.

The Savannah Rifle Association is one of the oldest in the United States, having been incorporated in 1873, but this was the first time in twenty-five years that the charming and beautiful old southern city had acted as host to visiting shooters. And what a host the city proved to be! Old-timers—veterans of many tournaments in various parts of the country—were able to say that Savannah's ideas of hospitality and entertainment, both on and off the rifle range, exceeded anything previously enjoyed by the small-bore clan anywhere in the East.

Mayor Thomas Gamble and an Honorary Committee consisting of F. C. Batty, Henry Blum, George T. Cann, Fred C. Myers, F. C. Wilson, and A. Duncan Kent,

officially opened the Matches, with Mayor Gamble firing the first shot. Incidentally, this shot was scored as a bullseye, but whether or not there was collusion with the pit, deponent sayeth not. The members of the Honorary Committee were all members of the old Georgia Team which back in the early days of the National Matches at Sea Girt gave the Regular Service teams, the New York National Guard, the Ohio National Guard, and the New Jersey National Guard such a run for their money each year.

The range had been erected on a corner of the Savannah Municipal Airport, from plans furnished by the National Rifle Association. The regular double type target frames similar to those used at the National Small-Bore Matches at Camp Perry last year were employed for the small-bore shooting at 50 yards, 50 meters and 100 yards. The pistol matches were conducted on the 200-yard range, with the targets operating from a regular target pit.

Shooting conditions were sufficiently varied during the small-bore matches to make an interesting tournament, the wide sweep of the airport landing field affording an excellent opportunity for the wind to get in "shenanigans" every now and then to keep everyone on his toes.

From start to finish the Savannah matches were run off in a perfect manner. The Parris Island Marine Station detailed a squad of expert pitmen for handling the pit, together with a field telephone system. The firing-line was handled

by Maj. Lewis Estill Fagan and Captain Mullaly of the Marine Corps, with the assistance of officers of the 118th Field Artillery, the Georgia Hussars, and other units of old Savannah military commands.

So much interest was revived in shooting competition in Savannah by the holding of this match that there will shortly be organized a Savannah Police Pistol Association. City officials gave their okeh to the idea of the Savannah Police Pistol Team attending the Camp Perry matches this year, and from the interest and enthusiasm that has been aroused among the membership of the Savannah Rifle Association, it is thought quite probable that their team will also participate in the Camp Perry small-bore shoot.

The man responsible for the tremendous success of the Savannah championship matches—A. Duncan Kent, already has definite plans laid for next year's shoot, and is looking forward with keen anticipation to the National Rifle Association's granting Savannah a national small-bore shoot, which he and all Savannah shooting enthusiasts hope will be an annual event. For this Mr. Kent and his committee are planning to build a permanent range which will be the last word in arrangement, and as carefully cared for as the fairways of any golf course.

But to come to the actual firing of the matches, H. M. Van Sleen, of Gastonia, N. C., captured the opening match—the Dewar course individual competition—

(Continued on page 29)

# Those Texas Colt Revolvers

Editor, AMERICAN RIFLEMAN,

Dear Sir:

I note in your March issue the article "A Texas Colt Revolver," by F. H. Shaw. The subject matter aroused my interest, as I have in my possession a Colt cap-and-ball revolver with the same marking on the cylinder. The barrel is octagon, 7½-inch, caliber .38 or .40, and the number on all parts is 54614.

Colonel Colt presented this revolver to my grandfather, C. C. Brand, who invented and manufactured in this city, whaling guns and bomb lances. His period of manufacture was contemporaneous with Colonel Colt's production of early revolvers, and the one I mention is engraved on the back strap as follows: "C. C. Brand Esquire, Compliments of the Inventor, Col. Colt." The reason for the presentation I do not know; possibly some exchange of courtesies or products.—ALYN M. BRAND.

Editor, AMERICAN RIFLEMAN,

Dear Sir:

Referring to the article in the March AMERICAN RIFLEMAN: "A Texas Colt Revolver," by F. H. Shaw.

The naval scene represents the naval battle mentioned by Mr. Shaw. This scene was the standard cylinder engraving placed on Colt 1851 and 1861 Navy revolvers and Colt 1860 Army revolvers, the numbers of which run into a few hundred thousand. Colonel Colt placed this scene on these revolvers in honor of Commodore Moore and his victory. Mr. Shaw is in error in assuming that the patent number is 478. The complete serial number was seldom put on the cylinder of Colt percussion revolvers, although the complete serial number was stamped on several parts of the revolver. I assume the number 478 is stamped on the cylinder. The number 177,478 indicates that this is the 177,478th Colt revolver made with this naval scene engraved on the cylinder.—J. W. AITKEN.

Editor, AMERICAN RIFLEMAN,

Dear Sir:

The article in the March 1935 AMERICAN RIFLEMAN, by Mr. F. H. Shaw, describing a Colt revolver engraved with a naval scene and marked with the words "Engaged 16 May, 1843," may be supplemented with the following information:

The first Colt revolver with the cylinder engraved with a naval scene and marked "Engaged 16 May, 1843," is the Model

1851 Navy Revolver. So engraved and marked, that arm was manufactured in large quantities from 1851 to 1857 in Hartford, Conn., and today is a very common arm.

The second, and to my knowledge the only other, revolver made by Colt so engraved and marked is the Model 1860 Army Revolver, which was also made in large quantities in Hartford, Conn., about 200,000 being made. That revolver is the one described by Mr. Shaw and shown in the illustration accompanying his article. Not all of these arms were engraved and marked like the one described by Mr. Shaw. In fact a rather small number of them were so treated. Furthermore, some of these revolvers have a full-fluted cylinder without engraving or historical marking. Such arms are rare.

Contrary to Mr. Shaw, I do not believe that "Texas had a number of Colt revolvers . . . engraved with a scene of a naval battle." I think that the engraving and marking in question was a device of Colt to further the sale of his revolvers by pleasing the Texans, as Texas was for many years the greatest market in this country for firearms of all kinds.

On all of the arms that I have seen, the words "Engaged 16 May, 1843" are stamped, not engraved.

I think that this subject is a very interesting one, and I should be glad to read what any other collectors of Colt arms may have to say about it.—GALEN M. LYON.

Editor, AMERICAN RIFLEMAN,

Dear Sir:

I was much interested to read the short article: "A Texas" Colt Revolver," by F. H. Shaw, printed in your March issue. We collectors of old firearms always perk up when THE AMERICAN RIFLEMAN gets off something on our special hobby. Unfortunately, however, I feel that Mr. Shaw has made a few mistakes which, for the good of gun-collecting in general, should be rectified.

Mr. Shaw has described what is known as the Colt .44-caliber Round-Barrel Army revolver. A great many of these were used by the Union army during the Civil War. The engraving on the cylinder depicts a naval battle between ships bearing the flags of Texas and Mexico, and is entitled "Engaged 16 May, 1843." Mr. Shaw is correct in his statement that this conflict resulted in a Texan victory. However, he is wrong in stating that this marking was used only on a few special arms. This scene was used very extensively by

the Colt Company. It is found on the cylinders of practically all of the Round Barrel Army revolvers, as well as on the .36-caliber Navy revolvers—hundreds of thousands of weapons in all. It even appears to have been used on some Colt revolvers made in London. The original engraving was executed, I believe, by W. L. Ormsby. Dies were made from this, by means of which the design was rolled onto the cylinders.

Mr. Shaw's interpretation of the numbers is erroneous. The space on the cylinder was too short to contain the words "Colt's Patent No." and a long serial number. Therefore it was the regular practice at the Colt Factory to put in this space only the last three or four figures of the serial number. The complete serial was stamped on the frame, butt-strap, trigger-guard, and barrel. The serial number of Mr. Shaw's revolver is therefore 177478. So far as I know, no patent number was ever put on this model.

These early American firearms were the ancestors of the weapons we use and admire today. They should be of interest to every rifleman.—ROBBINS H. RITTER.

Editor, AMERICAN RIFLEMAN,

Dear Sir:

In the March issue of THE AMERICAN RIFLEMAN, on page 16, there appears an article by F. H. Shaw: "A Texas Colt Revolver." With your permission I will furnish a few more details which may prove interesting to our readers.

I have had in my possession a good number of years a revolver of the same make as shown in the picture, with one exception: that my revolver is chambered for the .38 cartridge, and is center-fire.

I will give you a complete description: total length of gun, 12¾ inches; barrel, 7½ inches. The barrel has the following inscription: "Address: Col. Sam'l Colt, New York, U. S. America." There is also an engraved anchor. The cylinder has the following inscription: "Colt's Patent No. 9760." On the edge of the cylinder nearest to the barrel, "Engaged 16 May 1843." To the left the flags of Mexico and Texas. The frame has the following: "Colt Patent July 25, 1871 & 72." The serial number is 4423.

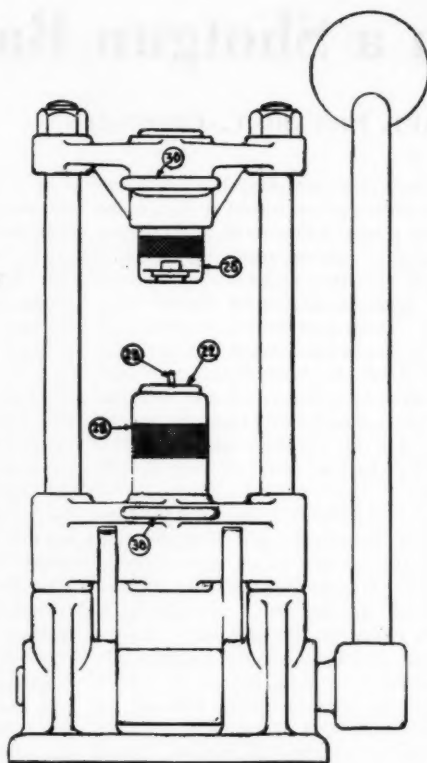
If this gun was ever remodeled it was a factory job, as all parts bear the serial number.

In 1931 I wrote to the Colt Patent Fire Arms Company, but very little information was available.

Any reader interested may correspond with me.—E. O. ZABEL.

# The New Bond Type D Loading Press

FIG. 1



**O**WING to the increased interest in quantity re-loading of ammunition, and because of the need of city, county, and state police organizations to cut ammunition costs, Modern-Bond were requested to bring out a loading tool that would turn out accurate cartridges quickly, and yet sell at a reasonable price. The result is the new Type D Bond tool, which has been in the process of development for about eighteen months. As now manufactured it is equipped to load the .38 S. & W. Special cartridge,

and later will be furnished for all modern cartridges.

Figure 1 shows the Press set up with Die 22, Die Block 28, Decapper 23, and Anvil 25, for neck-sizing and decapping, both of which operations are accomplished at the same time. The construction of the Decapping Shank is such that any crimp that may have been left in the case is removed. To size, the head of the shell is placed in the slot of the Anvil, 25, and a pull on the handle forces the shell into the Die, 22. A reverse motion withdraws it, when the case is ready for priming. Cases should be cleaned and gone over lightly with an oily rag before sizing.

An expander is not necessary, due to the method of seating bullets and to the fact that the shells are reduced to the original diameter, and will hold bullets friction-tight.

In order to make rapid changes of dies, etc., a Spring-Lock, 30, is used to hold these in place in the slide and cross-head.

Figure 2 illustrates the method of priming with Prim-

ing Tool 26 made for both large and small primers, and Priming Table 27. The Table is fitted with a steel bushing, 31, to center the head of the shell.

Figure 3 shows the tool set up for bullet-seating.

This new Bond tool is also adapted for straight-line bullet-sizing, a special die for the purpose being available at additional cost.

Since the above was written some minor changes have been made in this loading press, the Spring-Lock, 30, for example, having been somewhat altered in form to facilitate production, without in any way impairing the efficiency of the device. There have also been other minor alterations which have resulted in improvement over the original design.

FIG. 2

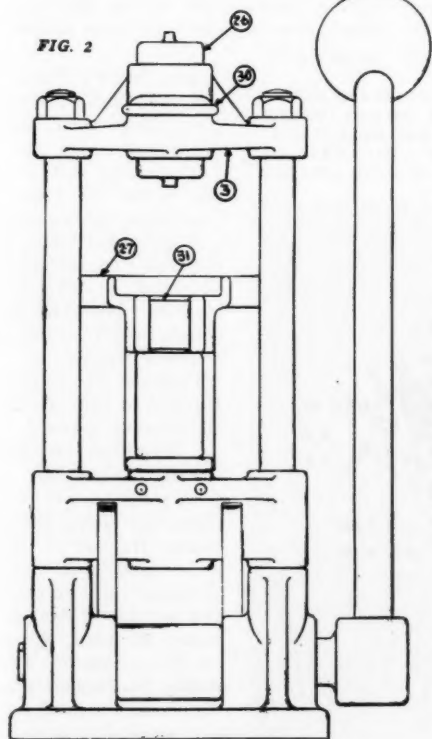
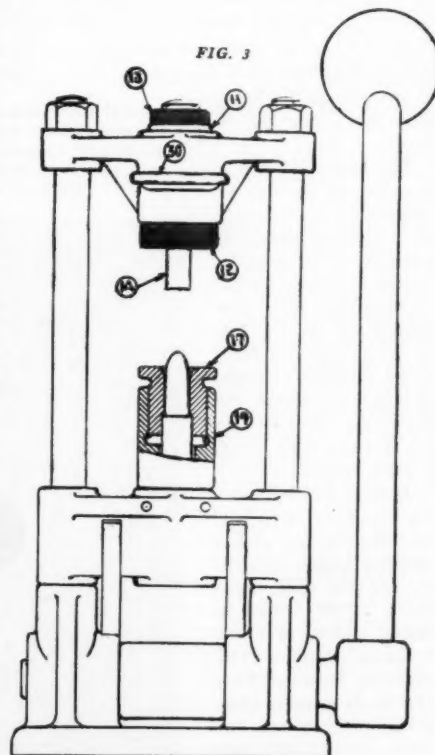


FIG. 3





# Rifling in a Shotgun Barrel

By CAPT. EDWARD C. CROSSMAN

**T**HE makers of shotguns have two problems handed to them by their customers. The first is to make guns which will hold their shot charge together at the longer ranges. This is the need of the duck-shooter and his clan. The second problem is to make shotguns that will cause the charge of shot to spread at the very short ranges. This for the Skeet-shooter, the rabbit-hunter working in heavy cover and probably behind a good dog, and the upland bird-shooter who has to take his bird at very short range or not at all.

Holding the shot together at the longer ranges—from 50 to 80 yards—to insure a sufficient number of pellets to kill the bird or animal, is done by leaving at the muzzle a couple of inches of barrel of smaller diameter than the rest of the tube, and then forming a taper, or slope, from the larger portion to that smaller portion. This is the choke, and it gives on the average about 4/100-inch "pinching-down" for full choke in 12 gauge, to about 4/1,000-inch, or a tenth as much, in what is known as "improved cylinder," which latter is the lightest degree of choke used in a shotgun.

The full-choke gun with large shot and modern loads will shoot 80 per cent or more of its total shot charge into a 30-inch circle at 40 yards. The slightest choke, or improved cylinder, will shoot from 35 to 40 per cent of its charge into that circle at 40 yards.

The American shooter is quite apt to base his opinion as to the virtue of a shotgun upon the gun's ability to group its charge in a small circle; or in other words, "how close it will shoot." This is a fair test for long-range shooting at ducks or other such marks, but it is a very poor test for the shooting done by the average hunter.

A great English sporting authority once said that the true test of fine shotgun boring was the pattern the gun would shoot at 20 yards—its spread and its even distribution of shot. This practical Britisher knew that more game is killed at around the 20-yard mark than at 40 yards.

When it came to making this shot charge of 400 or 500 pellets spread at short range to give a wide killing-circle and uniform distribution, and not smash up the game by hitting it with a fistful of shot, then the poor shotgun-maker found himself up a stump. The utmost possibilities of spreading the shot at short range, obtained with a barrel with no choke whatever, or with an "improved-cylinder" amount of choke and then a slight bell muzzle, as on one Skeet gun of standard and fine make, meant a circle of about 30 inches at 20 yards.

It is very difficult to obtain even these patterns, because to get them the gunmaker has to leave out all signs of choke, and with no choke the gun is sure to throw occasional patterns with a vast open space in the center, or else blow them all over the side of a barn. So the gunmaker, to get uniform shooting, has to use just a little choke—the "improved cylinder" of 4/1,000-inch—and accept a slightly closer pattern at 20 yards—one running around 28 inches in diameter for the 12 gauge being the actual spread that can be relied upon to make hits on game.

But this also means a 14-inch circle at 10 yards: a mass of shot that will wreck a bird; a circle too small to make hits very probable. And yet this is a distance over which the hunter in thick cover must shoot

if he is going to shoot at all, when bunny, or woodcock, or partridge, or grouse suddenly decides to go away from there. The pattern is also too dense and narrow for that incoming bird in Skeet, where the shooter has a double-barrel gun and can use two different sorts of choke. Many incomers in Skeet get nearer to the gun than 10 yards, while Station Eight—that notorious shot out in the middle, sees the bird within 5 yards or so.

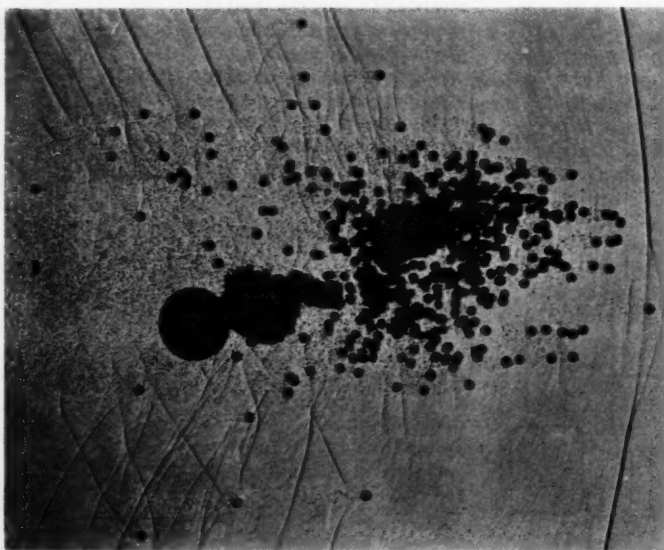
But, the improved cylinder represented the best the gun-boring sharks could do in the matter of spreading the charge. As the indignant Italian gentleman remarked when he brought back the gun he had just bought: "I ask for a close-shootin' gun and they giva me a far-shootin' gun; and it teara da game all to Hell!" The gun-making clan just couldn't figure out a "close-shootin'" gun.

However, certain British gunmakers who had put a little light rifling in double-gun barrels to permit of using both shot and solid bullets—the latter if dangerous game turned up—learned to their sorrow what a little rifling would do to a shot-charge. Evidently the lesson didn't take, or else they were not looking for a "close-shooting" gun, because, while noting the terrible "scattering" of the shot, they didn't seem to apply the lesson to their regular guns.

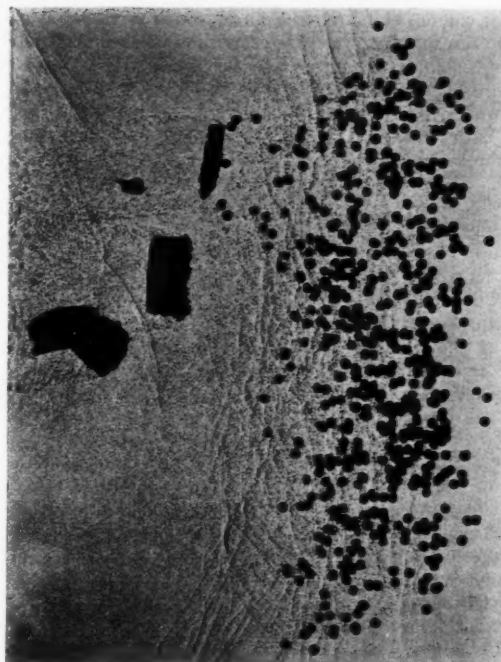
Also, many French peasants found out some queer things about putting rifling into a shotgun, or using shot in a rifle, when the French Government sold to them a lot of the old Chassepot and Gras rifles, and they undertook to use shot loads in them for the vermin which is found around all farms.

Profiting by these European discoveries, and desiring a gun with one barrel as wide-patterning as possible, a celebrated American sportsman—John Philip Sousa, Jr., son of the great band-leader and composer—sent an order to a well-known shotgun-maker in Eibar, Spain, one Victor Saraseta. The double hammerless gun Mr. Sousa obtained was a 20-gauge, had an ordi-

**SPARK PHOTOGRAPH OF SHOT CHARGE FROM ORDINARY 20-GAUGE CHOKE-BORED BARREL SIX FEET FROM MUZZLE OF GUN, TAKEN AT RIGHT ANGLES TO PATH OF SHOT. WADS ARE SHOWN FOLLOWING SHOT CHARGE. NOTE NARROW AND IRREGULAR MASS OF SHOT. THE LINES ARE AIR WAVES CAUSED BY THE SHOT PELLETS**







SPARK PHOTOGRAPH OF SHOT CHARGE FROM 20-GAUGE RIFLED BARREL OF THE SOUSA GUN SIX FEET FROM MUZZLE, TAKEN AT RIGHT ANGLES TO LINE OF SHOT TRAVEL. WADS SHOWN FOLLOWING THE SHOT CHARGE. NOTE WIDE AND SYMMETRICAL FORM OF CHARGE AS COMPARED WITH CHARGE FROM CHOKE-BORED GUN

nary choke-bored left barrel, but a right barrel with rifling in it, and no choke. This rifling is very shallow: about .0025-inch or less, and the "pitch" or twist of the spiral is very slow; not a complete turn in the full length of the barrel. There is no choke, and the rifling runs from the chamber clear to the muzzle.

In trying this gun for pattern I found to my great surprise that with ordinary loads of small shot such as is used for Skeet or trapshooting, the right or rifled barrel shot a series of the most amazing round, clean-edged, and even patterns of 18 inches diameter at only 8 yards. The most open ordinary shotgun barrel makes about 12-inch patterns at this range, while a full-choke barrel makes 7-inch patterns.

At 12 yards, where the improved cylinder makes about 17-inch patterns, the rifled barrel in the Sousa gun made a series of the same amazing round, even, clean-edged patterns 30 inches across, or wider than those made by the improved-cylinder at 20 yards; and far more even, clean-edged, and uniform than patterns shot by any improved-cylinder or other sort of shotgun boring.

But, with loads of high velocity and larger shot—No. 6 for example—the rifled tube would shoot a consistent series of patterns from 8 yards on, with not a single shot in the inside 50 per cent of the

pattern. The pattern was simply a rim of shot without a pellet in the 12 inches or so of the center, the exact size depending of course upon the range. In other words, the better one aimed the surer he would be to miss!

So evidently the rifling sprays the shot so much at high speed that there is none left in the middle of the charge, and the idea of the rifling is good only for the lower-speed loads of small shot such as Skeet demands.

Test of the little .22-shot loads in ordinary rifled .22-caliber barrels, and in barrels with no rifling, proved the spreading action of rifling upon the shot. While the smooth-barrel .22, using the new Long Rifle shot loads, would put the entire charge of 120 pellets into an 8-inch circle at 30 feet, and 41 to 45 per cent of the charge into a 4-inch circle, with the ordinary .22 rifled barrel the shot charge placed only 9 per cent of its pellets in the 4-inch circle, and 22 per cent in the 8-inch. This

is something to remember if the shooter wants to abate sparrows or stray cats without danger to the neighbors.

Apparently rifling gives the shot mass a whirling motion that causes it to spread enormously as compared with the performance of the ordinary cylinder tube.

To check on this the Peters Ballistic Laboratory at Kings Mills, Ohio, borrowed the Sousa gun and made spark photographs of the shot charge at a distance of six feet from the muzzle. These photographs are made by an electric spark which is set off by the sound of the gun's discharge operating a sensitive microphone. The time is estimated at one-millionth second. The two pictures shown herewith illustrate clearly the difference between the shot charge from the choked left barrel of the Sousa gun, and that from the rifled right barrel, at six feet from the muzzle.

The symmetrical rectangle of shot, 6 inches across and 2 inches from front to back, as compared with the narrow, irregular column of shot from the choke barrel, explains the marvelous and uniform patterns with the low-velocity shot loads at 8 and 12 yards. The pictures do not explain the hollow centers of the high-velocity loads in this rifled barrel.

But, rifling in a shotgun barrel is apparently the way to obtain a wide and uniform spread of shot at very short range;

and very probably experiment will determine the proper sort of rifling to eliminate the hollow centers with the more powerful loads.

## Principal Contributors In This Issue

**ALDEN McKIM CRANE** at present lives in Constantinople, being connected with the American Embassy there. His hunting experiences have been wide and varied, as for example: "From 1919 until 1922 I hunted extensively in the Philippine Islands, shooting deer, wild pig and various game birds and wild fowl. From 1928 to 1932, I hunted woodchuck in Maryland, deer in Canada, Florida and Mexico. Bear in Canada and Mexico and also peccary in the latter country, coyotes in Oklahoma and of course all the various smaller game.

**E. E. HASKELL**, of North Anson, Me., is not a stranger to our readers. His "job" is that of Principal of the Anson Academy; his hobby is rifle-shooting, in which he has taken a prominent part in his locality. He says: "My wife would say that I spend too much time and money in experimental shooting and in target practice; and I plead guilty on both counts."

**V. E. LAYNE** is a merchant in Halfway, Oregon. "While I have always been fascinated by firearms practically from childhood," he writes, "it was not until twelve years ago, when I joined the National Rifle Association and through its influence began to train myself along correct lines, that I began to make real progress in the game. I now own twenty modern firearms of the highest quality, in addition to quite a large library containing the works of all the American experts. Of course cameras, binoculars, scope sights and spotting scopes are included in my equipment."

**GEOFFREY B. KING**, of Savannah, Georgia, is Secretary to the Mayor of that city, and represented the Mayor at the Savannah Matches. Mr. King participated in the shooting on this occasion, although he is not an out-and-out shooter. He is much interested in the shooting game, however, and expects to go to Camp Perry this year with the Savannah Police Team.

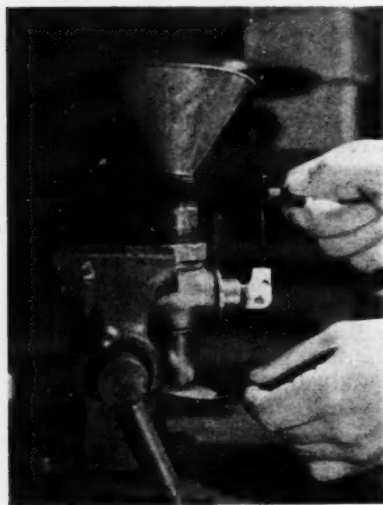
**CAPT. EDWARD C. CROSSMAN**, of Los Angeles, is well known throughout the country as a firearms expert, ballisticsian, and writer. He has been shooting and experimenting with firearms continuously since early in life, and few other persons in this country have the wealth of knowledge and experience that he possesses. He is widely known in the West as a firearms consultant in criminal cases.

## A SIMPLE POWDER MEASURE

By SAM UNGER

A SIMPLE and efficient powder measure can easily be made in an hour's time from a stopcock. A used one can usually be found under any work bench, or a plumber or pipefitter will give you one that has outworn its usefulness in the pipe business. Of course a new stopcock is better, but a second-hand one will serve the purpose if it seats fairly well. It does not have to stop water or steam.

Dismount the cock, and if it is grimy with age, clean it well inside and out. The solution you use to clean your shells will help it a great deal, and the wire brush on your polishing spindle will work wonders with the outside. While cleaning the parts, have the lead-pot heating. Now fill the rectangular hole through the plug with lead or bullet alloy, and if the cock has a drain hole in the outside portion, fill that too. Before you pour the lead, heat the plug quite hot so that the lead will not harden during pouring. Be sure to have plenty of lead at the bottom of the hole in the plug, for here the lead must be filed to the contour of the plug—else you will have a recess to hold powder where you don't want it. Use a little care in this filing so as not to spoil the close fit



of the plug. Make believe you are again fitting a bearing in the Model T.

Now turn your attention to the body of the cock. As both threaded ends are alike, decide which one is to be at the bottom of the measure. Having done this, note that the threads at this end will serve to catch and hold powder, so get out the hacksaw and cut this portion off. The place to cut is where the hexagonal portion begins. After sawing, smooth the cut with a file, and again examine the bottom opening to make sure there is nothing to prevent the free falling of the powder. Now hold the stopcock in the

vise, by the end that you did not cut off, and screw a short nipple into the threads. Into the nipple set a funnel of suitable size, to serve as a hopper. With drill and knife, cut a cavity in the lead which you have poured into the plug, and enlarge it until by trial and error it will throw just the charge of powder you wish.

The measure is now essentially complete, but of course further refinements can be added according to your own ideas. As shown in the illustration, I have soldered a funnel on the lower end of the body of the cock, and cut off the original brass handle, fitting a wire handle as shown. No doubt a convenient bracket can be devised for holding the measure in the vise, if desired—but I said the measure could be made in an hour.

This measure will throw very accurate charges if properly used. As to size, I find that a half-inch stopcock is ideal for pistol charges, while a three-quarter-inch size is about right for rifle cartridges. The latter can be made to throw any charge up to about fifty grains of 17½. Of course the measure is not adjustable, but it is very convenient for standard charges; even more so, in fact, than an adjustable one, as you do not have to set and check it every time it is used.

## THE RIFLES OF YESTERDAY

(Continued from page 13)

herewith, that were shot from 1886 to '88, and note the real accuracy of some of these target rifles made by Schoyen, Zischang, Pope, and others. It is definitely known that many groups of this size have been made in the past, and are still occasionally made by a few riflemen who are expert rest shots with the Schuetzen rifle; and I could show several such groups that were made by at least two men that I know whose veracity is above suspicion, the groups, moreover, having been shot in the presence of reliable witnesses.

Riflemen who have used only our boasted modern high-power rifles little realize the wonderfully fine accuracy that has been secured in years past, and can be duplicated today, with some of the rifles made by the noted barrel-makers mentioned, especially Schoyen, Zischang, and Pope. With these rifles and the proper loads there were none of the "unaccountable" wild shots that are had with the finest of modern high-power rifles. There was then, and even now still is, a certain fascination in shooting these fine old-time target or Schuetzen rifles, that is wholly lacking with our present-day high-power rifles.

With the target rifles of yesterday, much skill was required in casting bullets, preparing the right lubricant for each rifle and applying it correctly, finding the right kind and charge of powder, and even the right

kind of wad, all of which was *absolutely necessary* to secure the best accuracy from the target and Schuetzen rifles that the present-day rifleman with his factory-made cartridge knows practically nothing of. In fact I believe it required more real skill, knowledge, and "science" if you will, to properly prepare the ammunition for, and make high scores or small groups with, the old-time rifles, than is the case with the modern arm and its factory-made cartridge, which latter make groups that ten rifles would make thirty or forty years ago. Further, I do not believe that the *average larger* than those the best Schuetzen *real accuracy of our target and hunting* rifles has improved one whit during the past thirty or forty years. However, the primers, powders, bullets, and possibly the cases have been constantly improved by the corps of scientific and ballistic engineers employed by our present powder and ammunition manufacturers. Of course our military rifles have improved in accuracy during the period mentioned, but here again by far the greater part of this improvement is really due to improved ammunition, together with better rifle actions, better stocks, and better sights than were on the old .45-70 Springfield and other military rifles of those days.

NOTE: In the fourth paragraph on page 7 of Part I of this article, published in the April issue, I stated that when I was in the Hudson's Bay country during 1889-90 the majority of the hunters—whites, Indians, and half-breeds—used the .44-40 Winchester Model 1873 rifle. I should have said that the majority of Indians and half-breeds who owned breech-loading rifles used the .44-40 Winchester Model 1873, as did most of the white hunters. The great majority of Indians and half-breeds in those days used a muzzle-loading smooth-bore gun of about 20 gauge, in which they employed all sizes of shot for small game, ducks, and geese, and one or two round balls for moose, bear, and other big game. It was not the policy of the Hudson's Bay Company in those days to furnish the Indians generally with breech-loading rifles.

In Part II in the May issue, on page 11, third column, it was stated that the .32-40 Remington rifle used bullets .313-inch in diameter. This is an error, that rifle using bullets measuring .308-inch.

THE END.

## A REAL SIDEARM

(Continued from page 19)

There is a widespread and entirely false belief among many pistol-shooters that the .45 Colt is out of date; that its accuracy is mediocre, the recoil excessive and painful, and the gun itself heavy, awkward, and hard to control. Nothing could be farther from the truth, as a trial

of a modern .45 will show. While I would certainly not urge a beginner in pistol-shooting to commence with a .45 and full loads, for the ordinary good shot—and especially for the expert, the big guns have possibilities that distinctly are not found in the smaller bores. For example, in the matter of accuracy and high scores at the regulation targets, the heavy guns and large bullets always score better at the slow and timed-fire stages. When such men as Charles Askins, Jr., Elmer Keith, and a host of other top-notchers are switching to .45's, there must be a real reason.

In my own case I noted that when using the .38 Colt Officers' Model my average score for a season's shooting of about 1200 rounds at 25 yards, slow fire, was 95.7%; while the first season after changing to the .45, 1600 rounds fired showed an average of 96.4%, which included some rather poor scores of 90 to 92 made during the time I was getting accustomed to the new gun. When used for aerial-shooting and small-game hunting, the .45 proved itself to be extremely effective. The pictures show the writer and the .45 in action on aerial targets. Incidentally, this is a very fascinating angle of pistol-shooting, and is an effective method of impressing upon friends one's ability to use a handgun. Objects tossed above and in front of the shooter are not particularly difficult to hit, but when tossed straight out and rather low they offer much more difficult targets. Note the position of shooter when scoring on a piece of coal thrown straight away at about shoulder height. The coal was about 26 feet away from the gun when it was broken. In this sport the shooter should always wear glasses to protect his eyes from flying particles, and I find King's Rifleite glasses in the Camp Perry Model to be perfect for the purpose.

It is an acknowledged fact that the real test of a handgun-shooter's skill lies in his ability to perform well with the big-bores, and there is a pleasure in placing a big bullet accurately, which is never quite realized with the smaller ones. Therefore, to the man who loves fine weapons and who takes his shooting seriously; to the expert who is trying to improve his score a few points, and to the man who really uses a revolver for serious purposes, I say: try a modern .45 Colt.—It's a real sidearm.

#### POSSIBILITIES WITH A GAS-CHECK BULLET

(Continued from page 17)

will be dug in the semi-molten base of the bullet. Gas-checks should be set on firmly so that they will go the whole way with the bullet. Two or three strokes of

the sizer lever will do the trick, and will give more uniform lubrication. If one would shoot possibles with a bullet of this type, only the perfect ones should be used, and on these the copper cup should be started in a straight line by putting each cup on the work bench, and carefully pressing the bullet base straight into it.

The charges of No. 80 powder used in making the targets illustrated were thrown by the Ideal measure, care being taken to keep the hopper nearly full of powder. The first five or six charges were thrown into a box, and poured back into the machine. The handle was operated in such a manner as to give the least possible jar, and was worked by moving it uniformly and counting "two" while the cylinder was in a position to receive the powder. I never use the striker on the measure.

The seating-depth of the bullet was found by placing a bullet in a case, the neck of which had not been resized, and closing the bolt on this dummy cartridge. Too deep a seating of course causes the bullet to jump the rifling, which may deform it, while too shallow seating may, in bolt guns, twist the bullet in the rifling with the turning of the bolt in its closing motion. Case-mouths were reamed with a knife, and the necks only were resized, to give a light grip on the bullet. Gas-check bullets cannot be jammed into a heavily resized case-neck, and still give accuracy. Cartridges in which the bullets seated too lightly or too heavily were placed in a separate box, and used for fouling shots.

After using in my 54 Winchester several thousand of the loads described, I am convinced that the combination is good for approximately 1½-inch groups at 100 yards. I have used it in match shooting in preference to my 52 Winchester. The cost of the load, using fired cases and casting my own bullets, is approximately eight dollars per thousand rounds. The velocity I estimate to be 1600 foot-seconds.

The owner of any high-grade .25-caliber rifle who is desirous of turning out ten-shot 100-yard possibles at eight cents each, will do well to investigate the possibilities of the combination described above. It should be remembered, however, that only the most careful attention to the details mentioned will do the trick.

#### SAVANNAH STAGES FIRST OFFICIAL TOURNAMENT

(Continued from page 23)

with a 394 out of a possible 400, making a possible 200 at the 50-yard range. Fred Kuhn, of Bridgeport, Conn., a former member of the United States International Small-Bore Team, was first in the second events of the day. Other experts qualifying were Messrs. Chas. C. Hamby of At-

lanta, Ga., Hall Drake of Atlanta, Ga., E. L. Lord of Chicago—winner of the Grand Aggregate Match for the Critchfield Trophy at Camp Perry last year, and his wife, Mrs. E. L. Lord, W. P. Schweitzer of Hillside, N. J., Earl C. White, T. Newell West, and J. E. Register of Savannah, M. A. Cooper of Rome, Ga., E. O. Walker of Jacksonville, Fla., R. H. Parker of Gastonia, N. C., J. B. Sharpe and W. N. Hanna of Fort Screven, Ga., and Chas. S. Rockwell of Savannah.

W. P. Schweitzer, of Hillside, N. J., was declared the all-around rifle champion when he scored 270 points in the all-around championship event, holding an advantage of twenty-one points over the next closest score—that of C. N. Harris of the Parris Island Marines, who had 250.

In the Savannah open team championship match, the Savannah team, comprised of Messrs. Chas. S. Rockwell, T. Newell West, J. E. Register, and Earl C. White, carried off the honors, defeating the two crack teams from the Marine base at Parris Island by eleven points.

The Miami police pistol team "mopped up" in both the individual and team pistol championships. In the Team Championship, they beat the Savannah police team by thirty-two points, with the Fort Benning Army team scoring third in the rating. In the individual pistol matches Messrs. C. D. Stanton, P. H. Baldwin, and J. O. Barker—all of Miami and members of the police team of that city, tied for first place with 273 points.

#### HUNTING WITH THE KRAG

(Continued from page 16)

whom I used to hunt, who had two good hounds that would run the deer out of the thickets. One day they started a buck, and we could see the large patch of white hair at the base of his tail flash in the sunlight as he went over the top of a high ridge half a mile away. The hounds were some distance behind, and we thought he would get away from them, so sat down to wait until they should return. We had been sitting for about fifteen minutes, and as we could no longer hear the hounds baying we thought they had given up the trail. Suddenly, without any warning, a buck walked out of the woods within fifty feet of where we were sitting. I grabbed the old Krag and fired just as he started to run. I was using the 220-grain soft-nose bullet with a good deal of lead exposed on the tip. The deer fell without taking another jump, and when we went up to him we found that we would not have to use our knives to cut him open, as the bullet had done that. It had caught him low and opened him up better than we could have done with our hunting knives.



# National Matches—General Information

**T**HE following general information about the 1935 National Matches is based on action of the National Board for Promotion of Rifle Practice, War Department, up to the time of going to press (May 10th). This information is published in response to many inquiries with the assurance that the data given will be changed in no essential detail. Additional information will be published as it becomes available.

**Dates**—The National Matches will be held over the period September 1st to 19th, inclusive. The Small Arms Firing School will be conducted during the first week, September 1-6. The N. R. A. Matches, Big Bore Rifle, Small Bore Rifle, and Pistol and Revolver will follow beginning September 7th and ending September 15th. September 14th to 19th will be devoted to firing of the National Rifle and Pistol Matches.

**Size of Civilian Teams**—Civilian Teams will consist of a Team Captain, ten firing members and two alternates. Total team membership, thirteen. One of the alternates may be selected from the National Guard or Officers Reserve Corps to act as Team Coach, but will not be eligible to fire as a member of the team in team competitions.

**Selection of Civilian Teams**—Team Captain of State Teams will be appointed by the Adjutant General of the State, and firing members and alternates will be selected by competition under the supervision of the State Adjutant General.

**Transportation of Civilian Teams**—Members of Civilian Teams will be reimbursed by the Finance Officer at Camp Perry for the cost of transportation, as in years past.

**Subsistence of Civilian Teams**—Civilian Teams will be reimbursed for subsistence while en route and will be messed or furnished with subsistence in lieu of mess while in attendance at the Matches.

**National Guard Teams**—National Guard Teams will consist of Team Captain, Team Coach, two Range Officers, two alternates and ten Firing Members. Total team membership, sixteen. All team members and officers will attend on a voluntary basis without pay. They will receive subsistence and mileage allowance the same as Civilian Teams. Range Officers will be so rotated as to be permitted to compete in various matches. Specific information concerning the organization and selection of National Guard Teams will be furnished State Adjutants General by the National Guard Bureau.

**Reserve Teams**—Information is not yet available as to the number of Reserve Teams which will be authorized. Reserve Teams will attend on a voluntary basis without pay. They will receive mileage and subsistence allowance on the same basis as Civilian Teams. Information relative to the selection and organization of Reserve Teams will be furnished Corps Area Commanders by the Reserve Division, War Department.

**Small Arms Firing School**—All team members of every team attending at federal expense must take the full course of the Small Arms Firing School, unless they have previously received a certificate of proficiency from the school or from a similar school conducted by any of the Regular Services. Attendance at the School by unattached competitors is not required.

**Eligibility of Teams**—Teams which finished in Class A on the occasion of their last competition in the National Matches will be required to bring 40% new men, Class B Teams 30%, Class C Teams 20%. Members of Civilian Teams must be bona fide civilians. Members of the National Guard, Officers Reserve Corps, Naval Reserve, Naval Militia, or Marine Corps Reserve are not eligible as shooting members of Civilian Teams.

**Course of Fire and Conditions**—There will be no change in course of fire and conditions of the National Matches except that the 1000 yard stage of the National Individual Rifle Match will consist of ten shots instead of twenty shots. In the off-hand position (applicable to all Camp Perry Matches) the rule requiring the sling to be in the parade position with the hand under the sling and holding the fore-end has been eliminated. The new rules will permit competitors to loosen the sling and to hold the sling in the hand under the fore-end, if they so desire.

**Arms and Ammunition**—Service Ammunition, Caliber .30-'06 rifle and Caliber .45 pistol ammunition will be issued at Camp Perry, as in past years. National Match Springfield Rifles and .45 Caliber Government Automatic Pistols will also be available for issue under conditions as explained below.

**Unattached Civilians**—Civilians not members of any rifle team may attend the National Matches and Small Arms Firing School the same as in previous years. Such unattached civilians will be required to pay for their own subsistence, but they will be issued arms and ammunition without expense and will be supplied with

tents, cots, mattresses and other necessary bedding material without charge.

Members of the National Rifle Association will not be required to make a deposit in order to draw the National Match Springfield Rifle for use at Camp Perry. Non-members of the Association will be required to make a deposit of approximately thirty-five dollars for the use of such rifles. A deposit of thirty dollars will be required by the Ordnance Department for the issue of a .45 Model 1911 Pistol. The entire amount of the deposit in all cases will be returned when the arm is turned in to the Ordnance Department at Camp Perry.

Unattached civilians desiring to attend the School of Instruction should plan to arrive on Sunday, September 1st. Those wishing to attend merely for the period of the National Rifle Association Matches may do so. There are no restrictions as to the time of arrival or departure for unattached competitors. They may come and go at their pleasure.

**Squaw Camp**—The Club House and Squaw Camp will be open to competitors bringing their families. The charge will be one dollar per day per tent, plus an additional twenty-five cents per day for each cot above two cots in any one tent. Reservations for Squaw Camp should be made in advance through the Manager of Club House, Camp Perry, Ohio.

**The Official Program**—The official program containing general information about the school and camp, as well as detailed conditions of all matches to be fired, will be available for distribution about July 15th. In the meantime additional information will be published in the next issue of THE RIFLEMAN.

## HUDSON VALLEY TOURNAMENT

**W**ELL over 100 riflemen attended the second annual Hudson Valley Gallery Rifle Tournament held in the State Armory at Troy, New York, on March 23rd. This is the only large indoor rifle match held in this section and it is sponsored by the Hudson Valley Rifle League. The match is fired at 50 feet and the course of fire is five shots in each of four positions (prone, sitting, kneeling, standing).

The five-man team match and silver cup was won by the Schenectady General Electric A. A. Rifle Club No. 1 team, with the score of 917, eleven points higher than last year's winning score. The Pittsfield General Electric team took second place with 902. The two-man team match was won by Joe Nial and A. Peterson, of Troy, New York, with the score of 372, and the individual match was won by H. Bacon, of Greenwich, New York, score 189.

# Progress Report on Firearms Legislation

## California

Assembly Bill No. 309 was amended to make the smuggling of firearms into a prison punishable by life imprisonment instead of death. *It passed the House in that form but is now back for reconsideration.*

## Florida

Senate Bill No. 342 and House Bill No. 473, introduced by Senator Beall and Representative McNeill and referred to the Judiciary Committees of the two houses, sets a punishment on the indiscriminate brandishing of dangerous weapons. *It is a desirable measure.*

## Illinois

House Bill No. 712 increases the penalty for carrying concealed weapons by making the offense a felony instead of a misdemeanor. This penalty would be satisfactory for the improper use of a gun but it is much too severe for illegal possession. *The bill should be defeated.*

House Bill No. 713, introduced by Representative Adamowski, requires the registration of all firearms at twenty-five cents each and sets a fee of \$3.00 per year on a concealed weapon permit which is no good outside the county limits. This bill also imposes drastic restrictions on the sale of arms and ammunition and contains other provisions designed to disarm the average citizen. *It should be defeated.*

House Bill No. 857, introduced by Representative Ryan, is the bill prepared by the Sportsmen's Council of Illinois. It provides a state-wide concealed weapon license, good for three years, for \$2.00. The bill was drafted on the principle that the present law was sufficient and adequate and that any new law should be as liberal as possible. This bill is not perfect. It calls for the fingerprinting of applicants for firearms permits and contains certain other undesirable provisions, but if a new bill must be passed it is the best of the many which have been proposed at this session of the legislature.

## Massachusetts

House Bill No. 162, introduced by Representative T. Dorgan, has been passed by the House of Representatives. This bill increases the minimum penalty for carrying a pistol or revolver without a license from six months in a local jailhouse to two and a half years in the State prison. There is no good reason for this change, especially since it is difficult, and sometimes impossible, for an honest citizen to secure a permit under the Massachusetts firearms code, and tourists passing through the state with firearms in their possession have no way of obtaining a permit. Massachusetts members should contact their State Senators, asking them to vote against the measure.

## Michigan

House Bill No. 365, providing for the inclusion of the municipal chief of police on the board issuing licenses to carry concealed weapons, *has passed the House and been referred to the Judiciary Committee of the Senate.*

## New York

Assembly Bill No. 1103, putting the State in the pistol business, has passed the House and reached its third reading in the Senate.

## Ohio

Senate Bill No. 14, which began as a good firearms control bill, had its basic form changed by several amendments and was finally killed in committee.

## Pennsylvania

House Bill No. 1683, making it permissible to carry pistols or revolvers without a permit while actually fishing or hunting, has been reported favorably by the House committee and has been given a second reading.

## Texas

Senate Bill No. 189, setting a \$10.00 occupation tax on dealers in pistols and revolvers, has passed the Senate.

House Bill No. 297, making it necessary for part-time police officers to secure a permit to carry concealed weapons when not on duty, has passed the House.

## Wisconsin

Assembly Bill No. 261, the Uniform Firearms Act, has been defeated.

## NEW STATE LAW

### Tennessee

No wild game may be taken or killed with a shotgun capable of holding more than three shells unless the magazine has been cut off with a one-piece plug. Violators will be punished by a fine of \$10 to \$25. *The law was approved and became effective April 22, 1935.*

## ANOTHER LIVE PISTOL LEAGUE

IN THE spring of 1934 Robert B. Champlin, Secretary of the Amateur Rod and Gun Club, of Newark, N. J., one of New Jersey's most active clubs, conceived the idea of forming a league of nearby pistol and revolver clubs. How well the idea developed and with what success it met is indicated by the League Membership, which includes the following clubs: Morristown American Legion, East Orange Rifle Club, Rifle and Pistol Club of Oranges, Carlstadt American Legion, Hillcrest Gun Club, Lyndhurst Pistol Club, Amateur Rod and Gun Club, Battery C, 112th F. A., N. J. N. G., Maplewood American Legion, 44th Div., Aviation, N. J. N. G.

The support of the Newark Police force was gained through the Commissioner of Public Safety who granted the League free use of the Newark Police range. Major Towers, Commanding Officer of the 112th Field Artillery, granted the League the use of the 112th Armory range, and A. Harry Moore, then Governor of the State of New Jersey (now U. S. Senator), further encouraged the League by presenting the A. Harry Moore trophy for annual competition.

The Morristown Legion Team in winning the League title for the first season displayed excellent form. Firing slow, timed and rapid at 25 yards, the team finished the season with an average of 1316. Furthermore they relied on only five men to go through a long season with only a three-point setback by the East Orange team to mar an otherwise perfect record.

Donald Marshall, of the Rifle and Pistol Club of the Oranges, firing an average of 93.3% for the season, won the high individual gold medal. R. Triggs, of Morristown, was second with 92.3%, nosing out Lawson Page, of the E. O. R. C., with the same average.

The Suburban League, first of its kind in this section of New Jersey, has done much to enliven interest in the handgun game. The league confidently expects at least a half dozen new clubs to join next season.

## "Identification of Firearms from Ammunition Fired Therein with An Analysis of Legal Authorities"

By Jack D. Gunther and Charles O. Gunther; John Wiley & Sons. \$4.00 Net.

THIS book of 327 pages, with many excellent explanatory cuts, seems to have been written primarily as a text-book for the lawyer and jurist rather than as a handbook for the man interested in the mechanics of criminal firearms identification. One of the co-authors is a member of the New York Bar, and the other a Professor of Mathematics at Stevens Institute of Technology. The legal phase is therefore exceptionally well covered.

An extended case study of the Sacco-Vanzetti trial takes up just a little less than half of the book, while 82 additional pages are devoted to comments on extracts from the records of various trials involving firearms identification and decisions on appeals involving cases of the same kind. The book contains several pages of suggested questions for the use of attorneys in cross-examining witnesses who have been placed on the stand as "experts" in firearms identification.

From a standpoint of knowing the kind of evidence that will be admitted, the kind of cross-examination that may be expected and the qualifications that may be demanded, this book will be of real value to the firearms identification technician, although it will be of little value to him from the standpoint of suggestions concerning equipment and technique.

The book is recommended to members of the legal profession, and the firearms identification men for its legal approach to a problem which contains many legal pitfalls.—C. B. L.



# In the South.

## THE WINNERS

# PALMA MATCH

### THE MOST CONSISTENTLY ACCURATE

## SAVANNAH, GEORGIA

### First Annual South Atlantic Small Bore and Pistol Championships

This year springtime in Savannah was more than a season, for it ushered in a history-making event—the First Annual South Atlantic Small Bore Rifle and Pistol Championships.

Under the supervision of officials of the National Rifle Association, matches clicked off merrily, and while no world's records were broken, scores were uncomfortably close. Look them over—particularly those of W. P. Schweitzer,

winner of the All-Around Championship; Van Sleen, Dewar Individual and Hal Drake, Small Bore Wimbledon. These are just some of the tops.

And notice, too, all you champs and near-champs, that **ALL THE WINNERS IN ALL THE MATCHES SHOT PALMA MATCH!** Remington Arms Company, Inc., Bridgeport, Conn.

### SOUTH ATLANTIC SMALL BORE AND PISTOL MATCHES Savannah, Georgia

#### DEWAR COURSE INDIVIDUAL

	50 yds.	100 yds.	Total	
1. H. M. Van Sleen	200	194	394	Palma Match
2. E. L. Lord	197	196	393	Palma Match
3. Earl C. White	197	195	392	Palma Match
4. Chas. G. Hamby	198	194	392	Palma Match
5. Fred Kuhn	198	194	392	Palma Match

#### LONG RANGE INDIVIDUAL

1. Fred Kuhn	186	Palma Match
2. Frank E. Bryson	183	Palma Match
3. H. M. Van Sleen	180	Palma Match
4. W. J. Summerall	180	Palma Match
5. E. L. Lord	179	Palma Match

#### 50 AND 100 YARD—ANY SIGHT

	50 yds.	100 yds.	Total	
1. Chas. G. Hamby	196	197	393	Palma Match
2. E. L. Lord	199	193	392	Palma Match
3. H. M. Van Sleen	196	193	389	Palma Match
4. Earl C. White	196	192	388	Palma Match
5. E. O. Walker	194	191	385	Palma Match

#### SMALL BORE WIMBLEDON

1. Hal Drake	185	Palma Match
2. W. P. Schweitzer	182	Palma Match
3. Chas. G. Hamby	181	Palma Match
4. W. A. Cooper	180	Palma Match
5. E. L. Lord	179	Palma Match

#### 50 METER INDIVIDUAL

1. Fred Kuhn	385	Palma Match
2. E. O. Walker	385	Palma Match
3. E. L. Lord	383	Palma Match
4. John Register	381	Palma Match
5. Chas. G. Hamby	380	Palma Match

#### LONG RANGE 2-MAN TEAM

1. Chas. G. Hamby	186		Palma Match
Hal Drake	172	358	Palma Match
2. Earl C. White	177		Palma Match
Chas. Rockwell	175	352	Palma Match
3. H. M. Van Sleen	179		Palma Match
R. H. Parker	172	351	Palma Match

#### DEWAR COURSE 2-MAN TEAM

	50 yds.	100 yds.	Total	
1. W. P. Schweitzer	196	192	388	Palma Match
Fred Kuhn	197	194	391	Palma Match
			779	
2. E. L. Lord	195	192	387	Palma Match
H. M. Van Sleen	195	190	385	Palma Match
			772	
3. T. N. West	187	188	375	Palma Match
J. E. Register	193	192	385	Palma Match
			760	

#### 50 METER 2-MAN TEAM MATCH

1. W. P. Schweitzer	195		Palma Match
Fred Kuhn	194	389	Palma Match
2. E. L. Lord	195		Palma Match
H. M. Van Sleen	193	388	Palma Match
3. Cpl. R. Fleetwood	197		Palma Match
Sgt. B. W. Towler	186	383	Palma Match

#### ALL AROUND CHAMPIONSHIP

	Pr.	Kn.	St.	Total	
1. W. P. Schweitzer	97	90	84	271	Palma Match
2. C. N. Harris	94	88	68	250	Palma Match
3. E. M. Powell	94	84	71	249	Palma Match
4. Fred Kuhn	96	76	76	248	Palma Match
5. E. N. Amos	91	85	72	248	Palma Match



Chas. G. Hamby and Hal Drake, winners of the Long Range 2-Man Team Match. Hamby also won the 50 and 100 yd. Any Sight Match and Drake cleaned up the Small Bore Wimbledon.



Wm. P. Schweitzer, W. Fred Kuhn, Long Range Winner Small Bore Wimbledon and 100 yd. Any Sight Match. Kuhn won the 50 yd. Course Metre 2-Match. Long Range 2-Man Team Match.



H. M. Van Sleen, Winner Dewar Individual

TAKE THE TIP OF THOSE WHO TAKE THE PRIZES... HO



# In the West

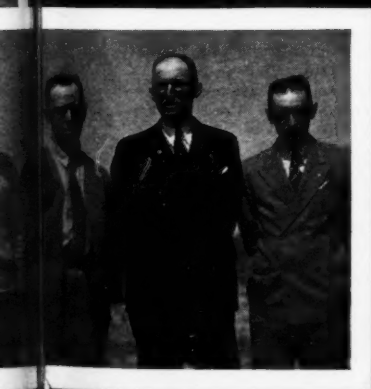
WINNERS SHOOT

# MATCH

ACCURATE .22 AMMUNITION!



Walter Joy, winner Dewar Match, Short Range Individual, and State Championship, California shoot.



P. Schweitzer, Winner All-Round Championship; Kuhn, Range Ind. and 50 metre Ind.; Hal Drake, Winner 500 yds Sight Match; Schweitzer and Kuhn also won the 2-Man Team Match and the 50 yds Match. Hamby and Drake also won the 2-Man Team Match.

Remington



## STOCKTON, CALIFORNIA

### Eleventh Annual Small Bore Matches of California State Rifle Association

At this most important match held on the Pacific coast each year, Palma Match was again out in front with the winners. Walter Joy shot Palma Match and stole the show, winning the Dewar with the fine score of 396, the Short Range Individual with 891, and the State Championship with 1500!

The Adams boys, Hank and John, loaded up with Palma Match, teamed up for the Two-Man Match over the Dewar Course, and chalked up the remarkable score of 798 x 800! John also

won the Offhand Match at 100 yards with Henry a close second.

Special mention should be made of the fine shooting of the Los Angeles Rifle & Revolver Club Team in winning the Fresno Rifle Team Match with only two down . . . and of the match-winning marksmanship of Archie Goldsborough and B. G. Simms. With one exception, every event on the program was won with Palma Match—a most conclusive demonstration of ammunition superiority.

#### OFFHAND MATCH—20 SHOTS 100 YDS., SCOPE

1. John R. Adams	180	Palma Match
2. H. J. Adams, Jr.	175	Palma Match
3. R. C. Kanagy	170	Palma Match

#### IRON SIGHTS

1. A. F. Goldsborough	178	Palma Match
2. C. B. Benson	164	Palma Match

#### LJUTIC MATCH—30 SHOTS 50 METERS, IRON

1. A. F. Goldsborough	297	Palma Match
2. Walter Joy	296	Palma Match
3. John B. Adams	296	Palma Match

#### DEWAR MATCH—20 SHOTS 50 AND 100 YDS.

1. Walter Joy	396	Palma Match
2. Chris Peterson	395	Palma Match
3. Henry Wright	395	Palma Match

#### HAMILTON MATCH—20 SHOTS, 100 AND 200 YDS.

1. R. W. Christy	197	Palma Match
2. G. M. Upshaw	197	Palma Match
3. Hal M. Smith	197	Palma Match

#### IRON SIGHTS

1. M. J. Calhoun	195	Palma Match
------------------	-----	-------------

#### TITHERINGTON MATCH—20 SHOTS 100 YDS.

1. Neil Baldwin	200-13x	Palma Match
2. Henry C. Wright	200-13x	Palma Match
3. E. Schwab	200-13x	Palma Match

#### SHORT RANGE INDIVIDUAL (Aggregate Titherington, Ljutic and Dewar)

1. Walter Joy	891	Palma Match
2. Henry Wright	889	Palma Match
3. J. H. Wolford	886	Palma Match

#### LONG RANGE INDIVIDUAL

1. B. G. Simms	420	Palma Match
2. G. M. Upshaw	416	Palma Match
3. A. F. Goldsborough	416	Palma Match

#### 2-MAN TEAM MATCH

1. J. B. Adams	400	Palma Match
H. J. Adams, Jr.	398	Palma Match
2. Walter Joy	398	Palma Match
C. C. Moore, Jr.	395	Palma Match
3. M. G. Ljutic	398	Palma Match
Al Ljutic	394	Palma Match

#### FRESNO RIFLE CLUB TEAM MATCH (20 Shots 100 Yards)

1. Los Angeles Rifle & Revolver Club		Palma Match
L. A. Pope	200	Palma Match
Walter Joy	200	Palma Match
H. D. Zaring	199	Palma Match
C. C. Moore, Jr.	199	Palma Match
2. Oakland Rifle Club	798	Palma Match
3. Capital City Rifle Club	795	Palma Match
	792	Palma Match

#### WIMBLEDON MATCH (20 Shots at 200 Yards)

1. B. G. Simms	195	Palma Match
2. W. C. Haack	194	Palma Match
3. C. G. Barthold	193	Palma Match

#### IRON SIGHTS

1. Jas. J. Keleher	192	Palma Match
--------------------	-----	-------------

#### PALMA MATCH (15 Shots at 150, 175 and 200 Yards)

1. Cliff Nash	225-37v	Palma Match
2. Henry C. Wright	225-37v	Palma Match
3. B. G. Simms	225-37v	Palma Match

#### STATE CHAMPIONSHIP

1. Walter Joy	1500	Palma Match
2. Hal M. Smith	1493	Palma Match
3. A. F. Goldsborough	1492	Palma Match

SHOOT THE WINNING AMMUNITION... PALMA MATCH

# Bank Guards Are Organized

**I**N PHILADELPHIA there has existed since 1927 a Revolver League composed entirely of bank guards, this League for the last year having been a member of the National Rifle Association under the name of the Bank Guards' Revolver Club of Philadelphia.

Unlike most other clubs or leagues of a similar nature, this one was founded and exists because the work is in line with the men's duties, although the sporting element to be found in any club is equally present.

Realizing that while most bank guards are equipped with firearms, their knowledge of these arms was frequently negligible, one of the Philadelphia banks some years ago undertook systematic training of its guards. This included courses in alertness, disarming and arresting law-breakers and finally, and foremost, the care and use of firearms, mostly revolvers.

Having proceeded with this training for awhile, the bank in question found it hard to hold the men's interest without the element of competition being present and found that competition among its own bank employees alone was not sufficient. For this reason other banks were approached and ultimately sold on the idea of also training their bank guards in a similar manner.

From the beginnings described a League has been functioning for 8 years, which is composed of teams representing 10 of Philadelphia's leading banking institutions. The teams are composed of 5 men and membership on each team depends upon the showing made by the men in the regular practice at their own institution, where monthly instruction is compulsory. A championship cup remains in possession of the winner until some other institution has won it and now carries the names of 7 institutions. In addition, the members of the winning team receive the League medal, as do the three high individual shooters in the League. So seriously has

this work been taken up that 7 excellent 60 foot indoor ranges of two or more positions have been built by the member institutions. The scores made by the various teams compare favorably with the high scores of similar shoots as reported in *THE AMERICAN RIFLEMAN*.

In the spring of 1934 the League felt a further step was necessary and, therefore, joined the National Rifle Association as a club, the membership in which is limited to bank guards belonging to the League in question. A team called the Philadelphia Bank Guard team was formed, composed of the best shots in this club and last season they competed for the first time in outside matches, having had no previous experience excepting on a 60-foot indoor range. The fact that they did remarkably well for beginners is shown by some of these results:

First match, May 4th—Penna. State Highway Patrol at Thorndale, Pa.—Ten Penna. police teams including state constabulary entered. Bank guards finished fourth.

Second match, May 26th—New Jersey State Police match at Wilburton, N. J.—Police teams from eastern states and cities participated. Bank guards finished 20th out of 40 entries.

June 30th—Bank Guards defeated a South Jersey Police team selected from police of 42 townships.

July 28th—Penna. Game Commission met at Allentown, Pa.—Nine Penna. police teams entered. Bank guards finished 4th.

August 17th—at Harrisburg, Pa., under auspices of Penna. Highway Patrol. 33 teams entered, including state police of six states. Bank guards finished 13th.

The present indoor season of the League has just been concluded and shortly preparations will be made for the outdoor season. The members of the Philadelphia Bank Guards Revolver Club would be interested in knowing whether any such similar organization exists in the country and if so, how it is conducted.—F. T. COXE, Secy., 701 Sussex Ave., Wynewood, Pa.

## D. C. M. OFFERS FREE TARGETS

**T**HE Director of Civilian Marksmanship, War Department, Room 1915, Navy Building, Washington, D. C., has on hand in Washington, D. C., approximately 3,000 international 300 meter rifle targets. These targets will be issued free, and shipped by *express, collect*, on request from civilian rifle clubs now on the rolls of the Director of Civilian Marksmanship. Not more than one hundred targets will be given to any one club. Please note that any rifle club requesting the issue of any of these targets must pay transportation charges.

## YOUTH OUTSHOOTS 12 ADULTS

**C**• ZORNES, JR., of Newcastle, Ind., age 14, member of the Chrysler Rifle and Pistol Club, defeated a class of twelve advanced adult pistol students by turning in a perfect score on Jan. 25, 1935.

Young Zornes scored 5 bulls at 15 yards with his .38 caliber target revolver. Probably Charles Zornes, Sr., Sheriff-elect of Henry County, will be able to utilize this accuracy when he takes office next January.

This lad loads his own, as well as his father's ammunition with great interest and gives promise of being one of the leading marksmen of the Indiana community.

## CLUB NOTES

**Albany (Calif.) Rifle Association's** 5-man team outshot a field of eight club teams in the North Bay Rifle League .30 caliber match held at Mare Island Range on April 21. Shooting the National Match Course, less than 1000-yard stage, Albany marksmen totaled 1120 x 1250.

**One of the most successful rifle matches ever held in the south, took place at Austin, Texas, on March 24th.** Fifteen cities were represented with a total of forty-five entries. Host of the occasion was the Austin Rifle Club, which organization handled all arrangements, including entertainment of visitors in a traditional royal way. W. B. Hopkins, Laredo, Texas, won the grand aggregate and Dewar course while W. T. Walker of Waco copped the any-sights Dewar event. Austin Rifle Club won the 4-man Team Match.

**Piscataqua Rifle and Revolver Club of Portsmouth, New Hampshire,** undefeated for two years has again won the State Indoor Team Championship conducted by the newly organized state association.

**In a closely contested gallery pistol match between Zanesville (Ohio) Rifle Club and the Seward (Alaska) Rifle Club,** the Ohio Club dropped only two points prone to win 1887 x 1861. Course consisted of 10 shots per man (5-man teams) in 4 positions.

**In the Annual Interclub Rifle Match (Dewar course with any sights) between the Trinity Rifle Club of Dallas and the Fort Worth (Texas) Rifle and Pistol Club,** shot on the latter's range, Sunday April 28th, the Dallas 5-man team won the cup for the third consecutive year. The scores: Dallas 1989 x 2000, Fort Worth, 1983. J. M. Harris of the Trinity Rifle Club led the field of competitors with a perfect score of 400.

**Fort Pitt Rifle Club of Pittsburgh, Penna.,** with 14 wins against 1 loss is leading the field of six teams competing in the Pittsburgh and Suburban Rifle League. South Hills Sportsman's Club is in second place, having won 13 and lost 2 matches.

**Greenwich (Connecticut) Revolver Club entered two teams in the Westchester New York Revolver Indoor League** and when the final results were announced both these teams topped the list. 12 pistol club teams participated in the series of matches, fired over the period February 5th to April 2nd. In the individual standings for eleven matches fired, Foss, Rivers and Stiver, of the Greenwich Club, placed 1, 2, 3 in the order named.

**Twenty local police and bank teams entered the Detroit Metropolitan Pistol Association Bank Police Trophy Pistol Team Match** fired at Detroit April 18, 1935. The well known Detroit Police Department Team (No. 1) took the trophy and silver medals on a total score of 1060, followed by the Federal Reserve Bank Guards (No. 1) who totaled 1033 to win bronze medals, awarded the runner up team.

**Empire Keystone Rifle League** composed of teams from New York State and Pennsylvania finished their winter schedule of matches April 24th. Final standing showed Greene (N. Y.) in first place, followed by the Harpersville Club. Additional clubs will join the 1935-36 indoor leagues.

**Pico Heights (Calif.) Rifle Club defeated the Los Angeles Club** 968 to 949 in a 200 yard Small-bore Match, fired April 7. Teams were composed of five selected men and all scores counted.

**The Seventh Annual Banquet of the M. B. A. Rifle Club of Kansas City, Mo.,** held on April 23rd was attended by 122 shooters and their guests, all of whom enjoyed themselves thoroughly and ate amply of a well served, tasty dinner.

**109 Marksmen fired the Individual Navy Team Tryouts, sponsored by the Central California Rifle Association** held at Ft. Barry Rifle Range on March 31, 1935. George Clough of Santa Cruz was high gun with a 242, closely followed by C. Nash of Oakland with 239, and C. Peterson of Albany with 238.

# Ohio Team Championships

ONE hundred and twenty riflemen competed in the fourth annual Ohio Team Championship Matches conducted by the Ohio Rifle and Pistol Association in the drill hall at Fort Hayes, Columbus, on April 6 and 7.

The League Champions Match for the Governor's Trophy was the feature event of the meet. Seven league champion teams lined up Sunday morning, April 7th, and when the shooting was all over and "Nick" (Wm. G. Nicholson, official scorer) posted the results it showed that the strong Tusco team, champion of the Stark-Tuscarawas League, was leading the field on their total score of 1417 x 1500. Findlay Rifle and Pistol Club, Northwestern Ohio Champions, placed second only three points behind the winners. In this match eight men fire and the high five constitute the team. The course is thirty shots per man, ten in each, prone, kneeling, and off-hand.

In a field of sixteen teams the National Cash Register team, of Dayton, successfully defended their right to the National Guard Trophy for another year by winning the Ohio Team Championship Match, a four-man team event. A big bid was made for the trophy by the Findlay Club, finishing but a single point behind the leading N. C. R.'s. Findlay held the trophy in 1933 and N. C. R. had it last year. The

score 1142 x 1200 for N. C. R., surpassed the 1934 record score by two points.

In the same match the Zeppelin Rifle Club, of Akron, won the metallic sight Ohio Championship. Tusco was second in the metallic sight division and third in the any-sight section.

In the Club Team Match, a twenty shot, four-man, metallic sight prone event the Zeppelin and Tusco teams were again fighting it out, and the Zepps won by a single point, 796 x 800 and 795 x 800. Thus in the three leading events an aggregate of but five points separated the winners from the runner-up teams.

Final event of the tournament was the third annual Buckeye-Empire match between the Ohio Rifle and Pistol Association and the Empire State (New York) Rifle and Pistol Association. Ten men fire 20 shots prone and 20 shots standing each. For the first time Ohio won. Both teams' scores (Ohio 3791, and Empire 3777) surpassed the former high in this match which was 3753, hung up by the Empire aggregation in 1933 and also in 1934.

Besides "Nick" W. G. Nicholson, who took care of the scoring in his usual efficient manner, the N. R. A. was represented by Secretary-Treasurer C. B. Lister, who dropped in for a considerable part of the program. Major John W. Hession, of the Winchester Company, also attended the meet.—R. B. FOUREMAN.

## CLUB NOTES

The 4th Annual Newark (N. J.) City Rifle Championship, fired March 29 on the ranges of the Essex Troop in Newark resulted in a win for Troop B of the Essex Troop. The winners fired a total of 899 x 900 over the popular 5 shots in the 4 positions course and took the gold medals. The Amateur Rod and Gun Club "A" Team with an 885 total landed in the runner-up position to win silver medals, while their "big shot" brothers, the A. R. G. C. "B" Team, maneuvered themselves into the medal class in Class B and also received silver medals.

Wilmington (Del.) Rifle and Pistol Club staged their first outdoor small-bore and hand-gun tournament on the Wooddale Quarry range on April 29. The Shoot was well attended and some of the best scores were turned in by comparatively inexperienced marksmen. C. S. Landis won both feature events, namely the Dewar Course Rifle Match, scoring 387 x 400, and the 25-yard pistol event in which he scored 195 x 200.

In the first Scholastic Competition between high schools of Pittsburgh (Pa.) held on April 26 the Munhall High School entered two teams and won first and second place honors.

In the Colorado State Rifle Association Gallery Rifle Team Match (prone, sitting and kneeling), fired February 17, 1935, the Colorado Rifle Club totaled 1369 to win the trophy and five silver cups. J. H. Gates, a member of the winning team, had the highest individual score of 286 x 300. Fifteen clubs competed.

The silver trophy offered by Manhattan Chapter, Reserve Officers Association of the United States, has been awarded to City College of New York. City College won the trophy in competition with other Manhattan colleges on the state range near Peekskill, N. Y.

The Third Annual Easter Shoot sponsored by Wichita Falls (Texas) Rifle Club was held on April 28. R. H. Roark shot a 394 over the Dewar Course to win the rifle trophy, while R. E. Barr took the pistol prize with a score of 225 over the national course.

## CHALLENGES

Pelican Rifle Club of New Orleans, La., challenges any club or clubs to matches, any position, iron sights and any distance with the .22; also 200 or 300 yard .30 caliber matches. British and Canadian Rifle Clubs are especially invited to answer. Write to A. G. Quina, President, Pelican Rifle Club of La., Inc., 1520 Canal Bank Bldg., New Orleans, La.

Roxbury Rifle and Pistol Club of Dover, New Jersey, will meet any Small-bore or Pistol Team of seven or ten men, five high to count, for a shoulder to shoulder match any Sunday, except June 9th and 30th, September 22nd, October 13th. Any position, any course of fire at 50, 100 or 200 yards will be acceptable. Metallic sights only and N. R. A. rules. For Pistol, any course of fire, any caliber at 15 and 25 yards. Write to John L. Diggory, Sec'y., Dover, N. J.

American Legion Junior Rifle Club of Wenatchee, Wash., challenges any Junior Club in the U. S. or Canada, ten boys or girls, ten shots prone each on five bull targets, all for record or five high as chosen by accepting team. Write to Robt. W. Belt, 717 S. Mission St., Wenatchee, Washington

Escanola (Mich.) Junior Rifle Club challenges any junior club in the country to a match. Conditions: three positions, four-man team. Our average is about 1035. Address Maurice Krummel, Sec'y, 522 Second Ave., South, Escanola, Mich."

## CHAIN LETTER FAD CRITICIZED

MANY RIFLEMAN readers have written to us to ask if there is anything we can do to discourage the popular chain letter fad, at least as far as N. R. A. members are concerned. One up-state New York subscriber who had an ad in the last issue (under a temporary New York City address) complains that some chain-letter faddist plucked his address from the Arms Chest.

Chain letters of various denominations from 10 cents to \$10.00 are sweeping the country and nobody seems to know of anything that can be done about it. Of course, the fad will soon die a natural death. The Post Office Department has so far failed to prosecute any cases but has indicated that the chain letter "racket" is fraudulent since no one when entering the pool knows just how far the chain has progressed.

Regardless of the legal aspects, the fad is a nuisance to many and we request members not to capitalize on their membership in the N. R. A. for the purpose of circularizing these letters.

## BUTTE POST TOPS LEGIONNAIRES

THE sixth American Legion National Gallery Post Team Match, fired on February 23rd and 24th was the most successful of any previous competition, both in number of teams competing and in quality of scores turned in. A larger number of teams likewise took part in the Department eliminations, which were held for the purpose of selecting Post teams to represent the various state departments.

Conditions called for teams of eight, five high to count, 10 shots prone, sitting and standing. Possible score 1500. 21 teams competed.

Medal winners follow:

- 1—Montana—Silver Gow Post No. 1, Butte—1418—McNutt Trophy. Silver Medals.
- 2—Ohio—Akron Post No. 209, Akron—1416. Gold Bronze Medals.
- 3—Oregon—Rose City Post No. 35, Portland—1411. Bronze Medals.
- 4—Indiana—Victory Post No. 70, Shelbyville—1413. Contenders' Medals.



## Bulletin No. 15

**GALLERY GRAND AGGREGATE—50 FEET**  
(14 Entries)

**Conditions:** Scores made in the Individual Prone, Sitting, Kneeling, and Standing Matches at 50 feet constitute the score in this match. To the winner a gold-filled medal; second, a silver medal; third to fifth, bronze medals.

Name and Address	Score
1. L. Shidlett, Jr., Birmingham, Ala.....	1562
2. Lawrence Corsa, Woodhaven, N. Y.....	1550
3. Albert Huebner, Pittsburgh, Penna.....	1521
4. Alan Du Bois, Hilmar, Calif.....	1519
5. D. Thimmesch, Dubuque, Iowa.....	1518

## Bulletin No. 16

**GALLERY GRAND AGGREGATE—75 FEET**  
(5 Entries)

**Conditions:** Scores made in the Individual Prone, Sitting, Kneeling, and Standing Matches at 75 feet constitute the score in this match. To the winner, a gold-filled medal; second, a silver medal; third, bronze medal.

Name and Address	Score
1. Lawrence Corsa, Woodhaven, N. Y.....	1544
2. L. Shidlett, Jr., Birmingham, Ala.....	1543
3. R. L. Sanders, Chicago, Ill.....	1530

## Bulletin No. 18

**INDIVIDUAL KNEELING MATCH—75 FEET**  
(10 Entries)

**Conditions:** Four 10-shot strings (40 shots), Kneeling. To the winner a gold-filled medal; second, a silver medal; third to fifth, bronze medals. Percentage Medals.

Name and Address	Score
1. Chas. Grollmund, Paterson, N. J.....	397
2. Lawrence Corsa, Woodhaven, N. Y.....	393
3. Wm. T. Bryan, Roslyn, Penna.....	390
4. Wm. Haus, Ellwood City, Penna.....	387
5. R. L. Sanders, Chicago, Illinois.....	383

## Bulletin No. 23

**TWO-MAN TEAM MATCH—50 FEET**  
(12 Entries)

**Conditions:** 20 shots per man Prone, Kneeling and Standing. Any sights. To the winning team two silver medals. Two bronze medals to the second and third teams. To the high team using iron sights, provided they are not the winners, silver medals.

Name and Address	Score
1. Albert Huebner, Pittsburgh, Pa. 577 } .....	1151
Art Mondschein, Pittsburgh, Pa. 574 }	
2. Don Andrus, Washington, D. C. 571 } .....	1142
Rand'ph Grinn, Princeton, N. J. 571 }	
3. Marshall Mathias, Warren, Pa. 569 } .....	1138
Fred Keller, Warren, Pa. 569 }	

## Bulletin No. 30

**INDIVIDUAL SCHOLASTIC CHAMPIONSHIP**  
(119 Entries)

**Conditions:** Forty shots prone. To the winner the Gooding Trophy and a silver medal. Second to tenth, bronze medals. Percentage medals.

Name and Address	Score
1. Frank Trezine, Royal Oak, Mich.....	400
2. J. S. Penhallegon, Chicago, Ill.....	400
3. Henry Dunbar, Sandwich, Mass.....	400
4. August Westergaard, Whiting, Iowa.....	400
5. Albert Ljutic, Richmond, Calif.....	400
6. Eugene Smith, Bakersfield, Calif.....	399
7. Harold Nelson, Brooklyn, N. Y.....	399
8. Roy Almdale, Chicago, Ill.....	399
9. Curtis Erickson, Oak Park, Ill.....	399
10. Robert Wilson, Louisville, Ky.....	397

**OFFICIAL BULLETINS**  
**N. R. A. GALLERY MATCHES**

## Bulletin No. 31

**INDIVIDUAL JUNIOR GALLERY CHAMPIONSHIP**  
(40 Entries)

**Conditions:** Four 10-shot stages (40 shots). Prone, sitting, kneeling, and standing. Free rifle standing position. Metallic sights. To the winner a silver medal; second to sixth, bronze medals.

Name and Address	Score
1. Harold Nelson, Brooklyn, N. Y.....	386
2. Edward Clark, New York, N. Y.....	379
3. Arthur Rapetti, New York, N. Y.....	373
4. John Davidson, New York, N. Y.....	373
5. Edwin Lake, New York, N. Y.....	371
6. Jack Boyd, W. Hartford, Conn.....	371

## Bulletin No. 50

**GIRLS' INTERSCHOLASTIC TEAM MATCH**  
(3 Entries)

**Conditions:** Teams of 10, 5 high to count. Three 10-shot stages (30 shots) per girl, prone. To the winning team 5 bronze medals. Percentage medals.

Team and Address	Score
1. Upper Darby Rifle Club, Upper Darby, Penna. ....	1454

## Bulletin No. 51

**MILITARY SCHOOL TEAM MATCH**

**Conditions:** Teams of 10, 5 high to count. Three stages. First stage—10 shots prone, 10 sitting. Second stage—10 shots prone, 10 kneeling. Third stage—10 shots prone, 10 standing. To the winning team the Military School Indoor Trophy, and 5 bronze medals.

Team and Address	Score
1. Culver Military Academy, Culver, Indiana. ....	2809

## Bulletin No. 52

**INTERSCHOLASTIC TEAM MATCH**  
(2 Entries)

**Conditions:** Teams of 10, 5 high to count. Three stages. First stage—20 shots prone. Second stage—10 shots prone, 10 kneeling. Third stage—10 shots prone, 10 standing. (Free rifle standing position.) To the winning team the Inter High School Indoor Trophy and 5 bronze medals. Percentage medals.

Name and Address	Score
1. Western High School Boys Team, Washington, D. C.....	2867

## Bulletin No. 53

**LIFE MEMBERS GALLERY MATCH—50 FEET**  
(42 Entries)

**Conditions:** Twenty shots prone and twenty shots standing. Any sights. Free rifle standing position. To the winner the Life Members' Plaque, and a gold-filled medal; second, a sterling silver medal; third to tenth, bronze medals.

Name and Address	Score
1. Harry Brill, Tulsa, Okla.....	390
2. Paul St. Jean, Yonkers, N. Y.....	388
3. J. Butterworth, Ames, Iowa.....	388
4. Joseph Myers, Philadelphia, Penna.....	388
5. Wm. Stephens, Jr., Philadelphia, Penna.....	387
6. J. M. Tokar, Detroit, Mich.....	386
7. W. O. Boian, Des Moines, Iowa.....	386
8. Vernon Wood, Zanesville, Ohio.....	386
9. Chas. Harmer, Butler, Penna.....	385
10. G. G. Cooper, Des Moines, Iowa.....	383

## Bulletin No. 54

**LIFE MEMBERS GALLERY MATCH—75 FEET**  
(14 Entries)

**Conditions:** Same as above except 75 ft. range.

Name and Address	Score
1. Rodney Risley, Pleasantville, N. Y.....	390
2. Howard Keene, W. Medford, Mass.....	383
3. Chas. Hamby, Atlanta, Georgia.....	378
4. B. Edworthy, Helena, Mont.....	377
5. Chas. Vander Bush, Paterson, N. J.....	376
6. Ralph Powell, Chicago, Ill.....	374
7. Wm. Kelley, Southbridge, Mass.....	373
8. G. Anderson, Oak Park, Ill.....	364
9. H. G. Olson, Harrisburg, Penna.....	363
10. Chester Moore, Somerville, Mass.....	361

## Bulletin No. 55

**LIFE MEMBERS GALLERY .22 SLOW-FIRE PISTOL MATCH—50 FEET**  
(13 Entries)

**Conditions:** Forty shots, slow fire. Any .22 caliber pistol or revolver. To the winner the Life Members' Plaque and a gold-filled medal; second, a sterling silver medal; third to eighth, bronze medals.

Name and Address	Score
1. Robert Dunbar, Grosse Pointe, Mich.....	374
2. Fay Ingleright, Bradford, Penna.....	354
3. Wm. Warshal, Seattle, Wash.....	354
4. George Fielding, Glens Falls, N. Y.....	349
5. Harold Mattison, Binghamton, N. Y.....	343
6. Ward Heller, Chicago, Ill.....	339
7. Chas. Faatz, Scranton, Penna.....	338
8. L. L. Cline, San Antonio, Texas.....	332

## Bulletin No. 56

**LIFE MEMBERS GALLERY .22 SLOW-FIRE PISTOL MATCH—20 YARDS**  
(10 Entries)

**Conditions:** Same as above except 20 yd. range.

Name and Address	Score
1. A. D. Benson, Lorain, Ohio.....	352
2. R. C. Powell, Chicago, Ill.....	344
3. Karl Krauthheim, Honolulu, Hawaii.....	343
4. H. G. Olson, Harrisburg, Penna.....	337
5. Harold Mattison, Binghamton, N. Y.....	336
6. B. Edworthy, Helena, Mont.....	335

## Bulletin No. 57

**LIFE MEMBERS GALLERY SLOW-FIRE PISTOL MATCH—50 FEET**  
(8 Entries)

**Conditions:** Forty shots, slow fire. Any automatic pistol or revolver of .38 or larger caliber. To the winner the Life Members' Plaque and a bronze medal; second, a bronze medal; third, a bronze medal.

Name and Address	Score
1. Fay Ingleright, Bradford, Penna.....	356
2. Wm. Warshal, Seattle, Wash.....	343
3. Chas. Faatz, Scranton, Penna.....	342

## Bulletin No. 58

**LIFE MEMBERS GALLERY SLOW-FIRE PISTOL MATCH—20 YARDS**  
(14 Entries)

**Conditions:** Same as above except 20 yd. range.

Name and Address	Score
1. J. P. Medinger, Las Cruces, N. M.....	360
2. Wm. Warshal, Seattle, Wash.....	354
3. H. G. Olson, Harrisburg, Penna.....	333
4. Richard Oestreich, Philadelphia, Penna.....	333
5. C. J. Code, Crafton, Penna.....	330
6. R. C. Powell, Chicago, Ill.....	327
7. L. L. Cline, San Antonio, Texas.....	320
8. B. Edworthy, Helena, Mont.....	318
9. Karl Krauthheim, Honolulu, Hawaii.....	314

**National Rifle and Pistol Matches and Small Arms Firing School** will be held at Camp Perry, Ohio. *Tentative dates* are September 1-19, inclusive. First week will be devoted to School of Instruction; second week to all N. R. A. Matches and final week to firing of National Rifle and Pistol Matches. See announcement elsewhere in this issue.

**Eastern Small-Bore Tournament** will again be held at Camp Ritchie, Maryland. *Dates* are July 3-7. Programs may now be obtained by writing F. J. Kahrs, Remington Arms Co., Bridgeport, Conn.

**Iowa State Rifle Association Program:** Small-Bore Rifle and Pistol and Revolver Matches at Des Moines, Iowa, June 8th and 9th and .30 Caliber Matches at Des Moines, Iowa, July 20th and 21st. Many of the more popular matches to be fired at Camp Perry (small-bore and .30 caliber) are included in the program. Information may be secured from G. G. Cooper, Secretary, 816 Telephone Bldg., Des Moines, Iowa.

**Illinois State Rifle Association program** for June includes the following District Matches: June 9th at Havana, Ill.; small-bore team and individual Dewar; also Pistol, slow and rapid, 25 yards. June 16th at Arrowhead Gun Club, Hinsdale, Ill.; Small bore-Individual Dewar and Individual 50 meters. June 23 at Ft. Sheridan, 200 yard Any Rifle Match. June 30th at Milan, Ill., .30 cal.—individual 20 shots at 200 yards, standing; also small bore individual Dewar. July 14th at Elgin Rifle Club, Elgin, Illinois; .30 cal., Army "B" Course. For details, address M. Worthington, Pres., Room 1514, 20 N. Wacker, Chicago, Ill.

**Connecticut State Rifle and Revolver Association** annual revolver and pistol matches will be held Sunday, June 16th, on the range of the Silver City Gun Club, Meriden, Conn. For programs address E. E. Cooke, Secretary, Meriden, Conn.

**Second Annual Kentucky State Championship Pistol Matches** will be held at Lexington, Kentucky, June 15th and 16th on the Police Range. For programs write W. L. Bain, Jr., Secretary, Lexington Pistol Club, Route #2, Lexington, Kentucky.

**Fourth Annual Minnesota State Small-Bore Matches** will be held at Fort Snelling on June 15th and 16th. For information write to G. W. Ford, 5040 Russell Avenue South, Minneapolis, Minn.

**Fourth Annual Florida State Pistol Matches** will be held on the police range in Miami, Florida, July 7th and 10th, inclusive. For programs write L. G. Crews, % Miami Police Headquarters, Miami, Florida.

**Southeastern Wisconsin Rifle Association** will conduct the Wisconsin Small-bore Spring Championship Matches of the Milwaukee District at the County Line Range on June 23rd. The program includes the Individual Dewar, the Dewar course with any sights, 2 man Any Sight Team, 5 man Club Dewar Match, and 50 yard Junior Match. The matches will dedicate the newly constructed 32 point small-bore range. For bulletins or information contact Joseph S. Chemel, Y. M. C. A., Racine, Wisconsin.

**Ohio Rifle and Pistol Association** announces try-outs for the selection of Ohio's National Match Civilian's team to be held as follows:

July 14 at Cincinnati—in charge of C. G. Kallensees, 2917 E. 3rd St., Dayton, Ohio.

July 21 at New Philadelphia—in charge of Sam Bond, 234 Second St., New Philadelphia, O.

August 4 at Camp Perry—in charge of Dr. C. S. Mundy, 2132 Glenwood St., Toledo, O.

**Massachusetts Rifle Association** will hold their 60th Anniversary Shoot on Sunday, July 28, 1935, at their Walnut Hill Range. Free Rifle, 20 shots off-hand. Standard American target. Any rifles, any ammunition, any sights. For details address W. S. Wait, Secretary, 10 Oakland St., Newton, Mass.

**Oregon State Rifle Association 1935 Outdoor program** includes Statewide .30 caliber matches on June 30 and July 21; and a pistol-revolver meet August 24 and 25. All matches will be fired at Clackamas Range, 5 miles southeast of Portland. For programs (an exceptionally well laid out booklet) address Neil Baldwin, 435 Meade, Bldg., Portland, Oregon.

## COMING EVENTS

**New York State Rifle Association Small-Bore Meet** will be held at Camp Smith, Peekskill, New York, June 8 and 9. The program includes matches at 50, 100 and 200 yards, as well as events over the Dewar Course with both iron and scope sights. For program address Fred. M. Waterbury, Sec'y, 305 E. 45th Street, New York City.

**Washington State Small-Bore Championship Shoot**, conducted by the Seattle R. & P. Assn., will be fired at the Club's new range in Seattle, on Sunday, June 9. This and other Matches on the Seattle Club's Calendar are covered in the program (another attractive booklet), copies of which may be obtained from Mrs. Edna M. Secord, Sec'y, 4328 8th Ave. N. E., Seattle, Washington.

**Texas State Rifle Association Program:** Small-Bore Matches at Fort Worth, Texas, June 8 and 9, (postponed from May 4-5 due to bad weather). **Large-Bore Rifle Matches** at Laredo, Texas, May 23-24-25-26. For programs or additional information contact Thurman Randle, President, 331 N. St. Paul St., Dallas, Texas, or J. F. Callan, Sec'y, 1209 W. 8th Street, Austin, Texas. **Pistol Matches** at Austin, Texas, June 15-16. For information contact L. L. Cline, State Sec'y, N. R. A., 325 Cedar St., San Antonio, Texas.

**Alabama State Rifle Association Pistol matches** will be shot at Birmingham, Ala., on June 2. There will be two re-entry matches, a match over the Army Qualification Course, and the State Pistol Championship. **High-power matches** will be fired on June 22 and 23 at Birmingham, Ala. The new National Guard range will be completed in the near future, and these high-power matches are set as the opening celebration. The big-bore matches will include all the regular state matches; the Hanna Match, the Starnes Match, the Sellers Match, and the State Championship. For details address E. E. Foster, Secretary, Box 1045, Mobile, Ala.

**Second Annual Central California Small-Bore Rifle and Western States Championship Shoot** will be held at Richmond, California, June 8 and 9. The Shoot will dedicate the new rifle and pistol range for which the City of Richmond has appropriated \$8,000. Trophies valued at several hundred dollars, donated by Richmond business concerns, will be awarded. The meet is sponsored by Richmond Lodge of Elks 1251 and the Richmond R. & R. Club. For programs address E. J. Martin, 1200 MacDonald Avenue, Richmond, California.

**Third Annual Nutmeg State Small-Bore Tournament** June 28, 29 and 30 on the State Rifle Range, East Haven, Conn. Matches at 50, 100 and 200 yards. Free use of tents and cots, furnish your own blankets. Eat, sleep and shoot on the range. For programs address Ward C. Hunt, Woodmont, Conn.

**Second Annual "Zeppelin Open Small-Bore Tournament"** will be held at Akron, Ohio, on Saturday and Sunday, July 27 and 28. Programs will be ready soon. Write to Clyde Schetter, % Good-year Tire & Rubber Co., Akron, Ohio.

**Statewide Pennsylvania Small-Bore Shoot sponsored by Indiana (Pa.) Rifle Club** will be held over that club's new range July 12-13. For programs write Alan B. Salkeld, Secretary, 74 E. Philadelphia St., Indiana, Pa.

**Cuyahoga Civilian Marksmen's Association** announces a series of outdoor shoots to be held at Hart's range, at the intersection of Schaaff and Brook Park Roads in Cleveland, Ohio, on the dates as noted below: **June 9th**, 50 and 100 yards, any sights, for individuals and teams. **July 14th**, 50 meters, metallic sights, prone, kneeling and offhand, for individuals and teams. **August 11th**, 50 and 100 yards, metallic sights, for individuals and teams. **September 15th**, 50 and 100 yards, any sights, for teams. **October 13th**, 50 meters, any sights, prone, kneeling and offhand.

**Third Annual North Georgia Small Bore (and pistol) Matches**, sponsored by the Atlanta Rifle Club will be held on the Fort McPherson, Georgia, range June 8, 9 and 10. For programs address Hal Drake, Executive Officer, Box 57, Station "D," Atlanta, Georgia.

**Hutchinson (Kansas) Rifle Club** will hold their Fourth Annual Decoration Day Sports Fiesta in Hutchinson, Kansas on July 4th. For details write Wm. Ruddick, Sec'y., Hutchinson, Kansas.

The Annual Small Bore Matches of the Affiliated Rifle Clubs of Rhode Island will be held at State Rifle Range, Rumford, R. I., June 15-16. For details write Frank B. Perry, 93 Calla Street, Providence, R. I.

**Chawangunk Mountain (N. Y.) Rifle and Pistol Assn.** will hold rifle and pistol matches on their Shay range at Wurtsboro, N. Y., on July 14, and August 11. For details address A. J. E. Shay, Secretary, Navy Yard Post Office, Brooklyn, New York.

**Walnut Creek Rifle Club, Erie, Pa.**, will hold its annual small-bore meet on June 16. The club range is 10 miles west of Erie, on Route 20. Write to Roy A. Loder, 1014 Cherry Street, Erie, Pa.

**Havana (Ill.) Post Rifle Club** will hold a small-bore Dewar Course match on June 9 beginning at 8 a. m.; also a pistol match. All clubs which care to attend are invited. The range is on sandy land, so a rain during the night will not interfere. Wear shoes or hi-tops, as sand gets into slippers. Families of shooters can spend their time at beach three miles away. Individuals not with teams can shoot. For details write Gen. F. Zellmer, Sec'y, Havana, Illinois.

**Frontier Gun Club of Lancaster, N. Y.**, will hold their second annual spring small-bore meet June 23, on the club range. For details address M. Domras, Bowmansville, N. Y.

**Second Annual Fort Harnar Open Small-Bore Tournament** will be held at Marietta, Ohio, on July 13 and 14. The program, sanctioned by N. R. A., consists of matches that will prepare shooters for the big shoot at Perry. Generous prizes, plus the famous Fort Harnar Trophy will be awarded. Programs may be obtained from L. R. Miller, 735 Fourth St., Marietta, Ohio.

**Palaski Rifle Club of Little Rock, Arkansas**, will hold a series of five Big-bore Shoots during June. The Matches will be held at Camp Pike each Sunday beginning June 2nd.

**Central Pennsylvania Rifle Club Inc.**, announces the following schedule of outdoor rifle and pistol matches to be held at Indian Echo Cave, Hummelstown, near Harrisburg, Penna., June 9, July 14, August 17 and 18, September 15, October 13. For details address M. D. Sours, Sec'y, 324 So. 16th St., Harrisburg, Penna.

**Taftville (Conn.) Community Athletic Association Rifle Club** will hold a Small-bore Shoot June 9, on their fine range in Taftville, about 50 yards from State Highway. Matches at 50 and 100 yards. For program address Dr. H. A. Archambault, 2 North Second Ave., Taftville, Conn.

**American Legion Department Fidas Match** for teams and individuals will be fired on the Split Rock Range at Syracuse, New York, on Sunday, June 23. For programs write J. F. Woolshlager, Castorland, N. Y.

**Orange County (N. Y.) League of Rifle Clubs** will hold its first annual outdoor shoot on July 28th. Medals, cash and merchandise prizes will be given. For full particulars address John R. Osborne, 54 Lake Avenue, Middletown, N. Y.

**Montgomery Rifle Club of Christiansburg, Va.**, will hold a State-wide Rifle and Pistol Match on June 15th. The program includes both small-bore and high-power rifle events as well as pistol matches. For program address George Summers, Secretary, Christiansburg, Va.

**North End Red and Gun Club of Allentown, Penna.**, will conduct small-bore matches on Sunday, June 9th (Interclub Dewar Course), and on Sunday, June 16th, Individual Iron and Any-Sight Matches. For details write Marlin Kemmerer, 620 Cleveland Street, Allentown, Penna.

## MAJOR MILLS AND CAPTAIN LORD TO SERVE AT RITCHIE

WHEN the opening shot is fired in the fourteenth annual championship matches of the Eastern Small-Bore Association at Camp Ritchie, Md., on July 3rd, Major B. W. Mills will be there, serving as an official in the first major tournament since his recent appointment as Director of Civilian Marksmanship. He and Captain R. H. Lord, the Assistant to the Director, will hold down the posts of executive officer and chief range officer, respectively, for the duration of the matches which run until July 7th. The Ritchie shoot, therefore, will give shooters in the East an opportunity to become personally acquainted with the officers who direct the War Department's civilian marksmanship program.

Most of the leading small-bore shooters in the eastern half of the country are expected to gather at this picturesque range located on the Maryland-Pennsylvania boundary to take part in the varied program of individual and team events. The interstate team match will be held again this year, with a course of fire of 20 shots per man at 50 meters, six shooters per team.

The pistol range will be in charge of Major H. L. Harker, Ordnance Reserve Corps. One of last year's competitors, when looking over the tentative schedule of pistol matches, said, "It is undoubtedly the most ambitious pistol schedule ever programmed." The pistoliers, with 27 events to fire, will be kept busy during all the five-day meet.

Programs for both the rifle and pistol events may be secured from Frank J. Kahrs, assistant executive officer of the matches, care of the Remington Arms Company, Bridgeport, Conn.

## FLORIDA STATE MATCHES

THIRTEEN Florida Cities were represented in the 4th Annual Florida State Championship Matches held at Winter Haven, Florida, on April 13 and 14. Civilians, Marines and Florida National Guardsmen shot shoulder to shoulder in these heavy caliber matches which were conducted by the Winter Haven Rifle Club and sponsored by the Florida State Rifle Association.

Conditions were far from perfect but furnished grand material for new alibis for which many were thankful. First event on the program was the popular Navy Course Off-hand Match calling for 20 shots standing at 200 yards. T. F. Bridgland, of St. Petersburg, Fla., won first honors and a gold medal on his score of 89, followed by F. L. Wyman, of Tampa, who finished with an 87.

Feature of the afternoon was the Florida-Wimbledon at 1000 yards which drew 30 entries. Private N. C. Key 1cl, Marine Barracks, Pensacola, Florida, proved himself to be the best guesser and copped first place and a gold medal with a nice 94. Corporal A. E. Johnson, another Marine, came in second, scoring 90.

There were 46 entries in the most popular match of the Shoot, the Florida State Championship which was fired Sunday morning. Conditions were 10 shots at 200, off-hand; 10 at 300 yards, sitting and 10 at 600 prone. C. G. Riecken, of Pine Castle Club, Orlando, Fla., piled up a nice 140 which gave him the Winter Haven trophy and a gold medal. T. F. Bridgland, of St. Petersburg, previous winner of this match, took second place and the silver medal.

Final match of the two-day meet, the Florida State Team Championship fired over the same course as the individual championship followed on Sunday afternoon. Winter Haven (Fla.) Rifle Club and the Sunshine Rifle Club team, of St. Petersburg, battled valiantly for first place. For a time it was considered a draw, each team scoring 666 points but finally it was discovered that the Winter Haven team's score outranked their foe's at the longer range so the State Trophy and five gold medals went to the Winter Haven boys. The annual banquet was held Saturday evening at the Haven Hotel in Winter Haven, followed by the annual business meeting and election of officers of the Florida State Rifle Association.—Mrs. L. M. BRIDGLAND.

## VERMONT GIRLS BEAT SOVIETS

THE rifle reputation of the USA which the Portsmouth (O.) and Newark (N. J.) men's teams had failed to uphold in recent matches with shooting outfits of the USSR, has been re-established again by the girls of the University of Vermont. Late in March their ten-woman team defeated a similar team from the Samoilov factory in Leningrad, in a prone postal match at 50 feet. The final score was Vermont 996 and Leningrad 949 out of a possible 1000. The Vermont team was in rare form after a long schedule of NRA and inter-college matches, and dropped only four points against their Soviet rivals.

Sergeant Raymond T. Conner, DEML, who trained the Vermonters, reports that the Leningrad ladies fired exceptionally close groups and dropped most of their points only because their groups were slightly off-center. A return match has been arranged. This will be fired at 50 meters, the Russians' favorite distance, and at this longer range they will probably prove hard to beat.

## ST. LOUIS SWISS CLUB REPORTS

FORTY years ago—long before there was any transportation, other than horse and wagon, St. Louis, Mo., had a rifle range. Located in South St. Louis on Route No. 61 at Bobringleville this old range is known as Sharpshooters Park, a beautiful grove containing eleven acres.

Death and depression have taken a good many of our old-timers but we still have some boosters who never tire of trying to build up the club.

Our range is 200 yards and all our shooting is done off-hand. If any shooters who belong to the N. R. A. are ever in St. Louis on our shooting days we would appreciate a visit from them. Our shoots are usually held on Sundays. Most all our members are N. R. A. boys who like to meet other members. The oldest man in the club is Mr. Fred Pauly, who is 76, and we believe no man his age can beat him off-hand in 50 shots.—ROBERT F. NORTH, *Secretary*.

## Edgar A. Cerf, Jr.

EDGAR A. CERF, JR., aged 30, died suddenly at Welland, Ontario, April 9th, 1935, as a result of an automobile accident.

For several years he has been an outstanding member of both the rifle and pistol teams of the Brooklyn (N. Y.) Edison Club. He was also interested in other sports and was an electrical engineer of brilliant promise. His modesty, good nature, willingness and all-around sportsmanship have endeared him to many friends who mourn his loss.—C. A. CASSIDY, *Secretary*.

## Jerome B. Rosenstiel

AFTER a valiant but unsuccessful effort to combat a sinus illness which had baffled medical science, Jerome B. Rosenstiel, University of Illinois honor student and a member of the 1935 graduating class, died on May 3rd at the home of his parents in Freeport, Ill. He was 23 years of age.

Aside from his excellent scholastic record young Rosenstiel was widely known for his shooting ability. He won the Mid-Western Rifle Championship at Milan, Ohio, last September, and had numerous pistol and shotgun records to his credit. He was manager of the university rifle and pistol team and had qualified on several occasions as an expert marksman, taking many honors both at the university and at R. O. T. C. training camps.

The N. R. A., of which young Rosenstiel was an active member, joins his sportsman friends in extending sympathy to his bereaved parents.



## ZEPPELIN PROGRAM NOW READY

**P**LANs for the second annual small bore tournament, the most pretentious program of rifle matches yet attempted by the Zeppelin Rifle Club, of Akron, Ohio, have been completed. The Tournament will feature 13 matches for teams and individuals and is scheduled to take place on the fine Zeppelin outdoor range near Akron on July 27 and 28.

Prizes, medals and trophies galore will be at stake, including the beautiful bronze Litchfield Trophy, valued at more than \$500, for the individual champion. Present holder of this award is Merle Israelson, of the Zeppelin Club, who captured the trophy with the fine score of 977 x 1000 over the DeWar, 50-meter and 200-yard courses last year.

As was the case last year, four of the premier events will carry cash guarantees of \$25 to each of the first place winners. All other matches, excepting the international events, will carry percentage cash prizes as well as medals.

The entire program will be sanctioned by the National Rifle Association and officials of that organization have promised to be on hand to assist in conducting the two-day shooting fest. Records established during the course of the matches will be recognized as official.

The program for the July shoot is now ready for distribution and may be obtained by writing to C. E. Schetter, care Goodyear Rubber Co., Akron, Ohio.

## FLORIDA PISTOL SHOOT AT MIAMI IN JULY

**T**HE fourth Annual matches of the Florida State Police Pistol League will be held on the police range in Miami, Florida, on July 7th, 8th, 9th and 10th. There are fourteen pistol matches in the program besides the re-entry matches. This year the National Rifle Association is sponsoring the matches and will send officers from Washington to handle both the range and the scoring.

The schedule includes eleven individual and three team events. Besides the trophies and medals for the winners this year, the winner in several matches will receive up to \$50.00 in cash. Match No. 5 winner receives \$50.00, the winner in Match No. 13 will also receive \$50.00 while the winning team in Match No. 6 will receive \$30.00, the same amount going to the winning team in Match No. 14.

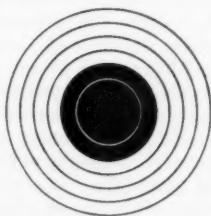
This is the fourth year these matches have been held in Florida, twice in Tampa and once in Miami. These cities having the best police ranges in the state, it was decided by the league officers to alternate each year between the two until such time as another suitable range was built.

Miami is noted for the entertainment of winter visitors and the many shooters who attended the three previous matches will recall the splendid time they enjoyed. Nothing seems to be too good for a shooter in Miami and sometimes the contestant wonders if he will have time to get in a little match shooting between entertainment offered by the Miami Police Department and its officers. You are guaranteed the best time you ever had and if you don't have it, it will be entirely your own fault. If anyone gets too hot there is always Biscayne Bay where he can be cooled off if that becomes necessary.

Programs are now being mailed and if you haven't received yours please get in touch with either Sgt. L. G. Crews, Miami Police Headquarters, Miami, Florida, or Mr. L. J. Hodge, Secretary of the Florida State Police Pistol League, Police Headquarters, Tampa, Florida.

## 25 FT. RIFLE TARGET PROPOSED

**S**OMEONE writing in the March RIFLEMAN in regard to shooting in the home basement said that he did not know of a small bore rifle target for practice at 25 feet. I made one by reducing the regular small bore target in the conventional manner, except that as the final step in the calculations I added .22 instead of subtracting it. Shots on this target score the value of the lowest ring they touch instead of the highest. Following are the measurements:



9 Ring	.....	.405	inches	.....	black
8 "	.....	.571	"	.....	"
7 "	.....	.738	"	.....	"
6 "	.....	.905	"	.....	"
5 "	.....	1.071	"	.....	"
Miss "	.....	1.238	"	.....	"

Note that a ten must not touch the white circle and that a shot touching the outside (5) ring scores a miss.—W. C. THAYER, 4 High St., Brewer, Maine.

## CENTRAL KANSAS RIFLE LEAGUE

**T**HE third annual small bore Tournament sponsored by the Central Kansas League was held in Sterling, Kansas, over the Armory Range on April 26, 1935. Course was 5 shots in 4 positions at 50 ft., using iron sights.

Four clubs participated from the following cities, Bushton, Hutchinson, Lyons and Sterling, ten-man teams from each club, the five high counting in team score.

The George Jones silver loving cup which had been won by the Hutchinson team in 1933—score 899 and in 1934—score 898, was this year lost by them to the Lyons team which scored 887. Mr. George Jones attended the Tournament and made the presentation speech.

Other winners included H. A. Wagner, who made the high individual score of 189, to take the Gold Medal; A. J. Nickerson, of Bushton, score of 181, winner of the runner-up Silver Medal, and William Coonfer, whose score of 179, won the Bronze Medal. The Medals and Awards were by the Sterling Chamber of Commerce and were presented by the President, Dr. Irvin L. Cowger.

The League takes this opportunity to extend thanks to the Armory and Chamber of Commerce for their part in making everything comfortable for the visiting clubs. Hutchinson N. R. A. Rifle Club invited the Central Kansas Rifle League to hold the 1936 Tournament in that city, and no doubt the League will gladly accept the invitation.—C. M. GUTTERY.

## INDIANA (PA.) SHOOT OFFERS FREE TRIP TO CAMP PERRY

**A**CAMP Perry Special Dewar Course Match has been added to the Indiana (Pa.) Rifle Club program to be fired in that city on July 12-13. It is expected that this one match will attract scores of additional shooters since the winner either takes a Unertl Rifle Telescope, made by John Unertl, Pittsburgh, Penna., or a free trip to Camp Perry, Ohio, and return, with all expenses paid.

Another highlight of interest to shooters who plan to attend this important meet is the recent appointment of Captain R. M. Bair as executive officer of the tournament. Captain Bair, who has courteously agreed to act, is known in Pennsylvania as Instructor for the State Police. He is N. R. A. State Secretary for this state and enjoys a wide personal acquaintance among shooters. His appointment as Executive Officer, coupled with the assistance of N. R. A. Officials already promised, insures conduct of the matches on an impartial and efficient plane.

Programs have been mailed to all competitors who were at Camp Perry, Ohio, last year and to all club secretaries in Pennsylvania and neighboring states. Additional programs are available and will be mailed to anyone requesting a copy. Address requests to A. B. Salkeld, Secy., 74 E. Philadelphia Street, Indiana, Pa.

## CENTRAL CALIFORNIA SHOOT

**T**HE California Central Coast Rifle League held its "Annual Spring Shoot" on the range of the Santa Maria (Calif.) Rifle Club, April 28, 1935.

Attendance records were again broken and Mr. Kenny Prindle, young Tyro, walked off with the silver first place trophy in the main rifle event, with a score of 243 x 250, to the disappointment of some ex-members of the California State Rifle Team and other experienced shooters.

The Santa Maria Rifle Club team took first place in the Army "D" Course team event with a score of 1200 x 1250, nosing out the San Luis Obispo Rifle Club team by nine points. San Luis Obispo, however, walked off with the Class A team event fired over the national short range course (all rapid fire at 200 yards) scoring 699 x 750. Taft Rifle Club took first in the pistol team match with an average of 95 per cent over the Army Pistol "D" Course. Seven League medals (four rifle and three pistol awards) were won in the individual events by the following: Rifle—Harold Fredricksen, Gold; Kenney Prindle, Silver; William Donahue, Bronze; Ralph Meadows, Bronze. Pistol—J. M. Jordan, Gold; H. A. Bailey, Silver; A. B. Bodenhamer, Bronze.

## ERIE BOYS ENJOY EXPOSITION

**A** BOY'S Exposition sponsored by the Erie (Pa.) Y. M. C. A. was held in that Northwestern Pennsylvania city on April 11, 12 and 13. The exposition was for boy's ranging in age from 9 to 19, and was composed of over 250 events of sports and handicraft work. Rifle shooting drew the largest single entry with 225 boys competing. The range was open from 3:30 in the afternoon until 10:30 at night. The program was divided into three parts, first for boys under 16 years, second for boys under 19 years and the third a team match which drew five teams.

The class A first match for boys under 16 years had 172 entries, course being 10 shots prone on the five bull target. Many firing in this match had never fired on a regular range before and this match was won by Neil Klapthor, a boy of 13, with a score of 91 x 100.

The second event (for boys under 19) had 54 entries. James Bates won this match with a score of 177 x 200. Course was 10 shots prone and 10 shots standing on the 5 bull target.

The team match called for 20 shots prone on the five bull target, open to teams of five firing members and a team captain and coach. It was won by the Erie Chapter, Order of DeMolay, with a score of 934 x 1000. There were five teams in this event.

George R. Loder, who captained the winning team, was on the committee handling the shoot. He is Junior Rifle Club Instructor at the "Y," which position he has held for the past 2 years. The boys who won most of the individual prizes were Loder's students.

## WESTERN NEW YORK LEAGUE BANQUET

**T**HE Annual Banquet of the Western New York Rifle League was held on the evening of April 17th at the Geneva Country Club. The six clubs of the League were well represented, there being ninety-one present, counting the wives and sweethearts.

After a fine meal which was enjoyed by all, the President of the Rochester Rifle Club was presented a large loving cup, to be held for one year. The Rochester Club surely deserved this cup as they performed the rare feat of winning all twenty matches and by so doing set a league record.

A fine medal was next presented to A. Blensinger of Rochester, his average of 289.90 over the twenty matches being high for the league. The course of fire in this league is ten shots in each of three positions—off—hand, sitting and prone. This fine average by Blensinger, one of last years Dewar Team Men, had a great deal to do with Rochester's unbeaten season.

The Palmyra Rifle Club was presented with the Class "B" trophy which is presented to the club having the most wins with a team average for the season of less than 1400. After the presentation of prizes, moving pictures of Camp Perry and Camp Ritchie were shown and were enjoyed by all. Then the orchestra struck up a lively dance melody and the shooters, their wives and friends brought to a close a very successful season, by waltzing until time to say goodnight.

The success of the season is best shown by a few statistics. There were 66 shooters from the six clubs who shot in at least 14 of the twenty matches. There were 19 shooters who participated in all 20 matches. At the close of the league there were 114 shooters participating in the matches, many of these being tyro shooters who will be a fine addition to the various clubs next year.—P. E. CHAMP.

## STOLEN

A M52 Winchester rifle, serial No. 29023, in new condition also new Lyman Targetspot 10X Scope, No. 868, stolen from auto of C. M. Cronk in front of his home at 4004 Jacob St., Wheeling, W. Va., on the night of May 2. Mr. Cronk offers a generous reward for information leading to recovery of this equipment. No questions asked.

## NEW CLUBS CHARTERED

**Fairview Gun Club**, Mr. H. D. Keith, Secretary, Fairview, West Va. **Quannah Rifle Club**, Dr. R. G. Warner, Secretary, Quannah Rifle Club, Quannah, Texas. **Danbury Rifle Club, Inc.**, Mr. Otto A. Truderung, Secretary, 11 Ellsworth Avenue, Danbury, Connecticut. **Pelican Rifle Club**, Mr. Elmer A. Leiding, Secretary, Orr, Minnesota. **State Line Rifle Club**, Mr. Halsey M. Hendricks, Secretary, Bristol, Tennessee. **Faribault Rifle and Pistol Club**, Mr. C. E. Purdie, Secretary, 116 Shumway, Faribault, Minnesota. **Oregon State Faculty Rifle Club**, Mr. E. D. Meyer, Secretary, 526 N. 14th Street, Corvallis, Oregon.

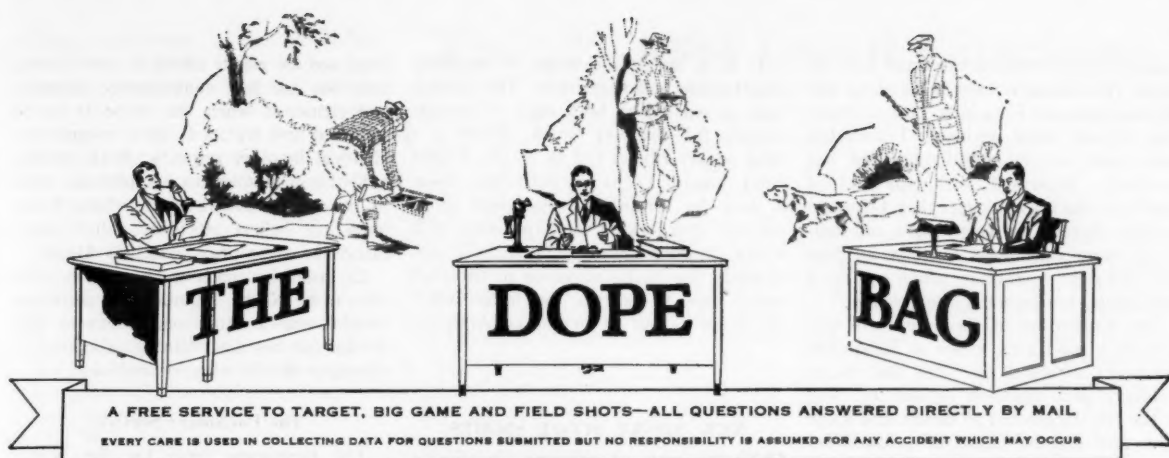
**Lisbon Rifle Club**, Mr. I. K. Hegle, Secretary, Lisbon, North Dakota. **Old Glory Naval Post #48 Amer. Leg. Rifle Club**, Mr. Wm. A. Stenstrom, Secretary, 285 Carlton Avenue, Brooklyn, New York. **Centralia Rifle Club**, Mr. L. F. Brinkmann, Secretary, R. F. D. #2, Centralia, Illinois. **Parkville Pistol and Rifle Club**, Mr. Howard Hengstler, Secretary, 7119 Shore Road, Brooklyn, New York. **Monte Vista Rifle & Pistol Club**, Mr. Al Pearsall, Secretary, Monte Vista, Colorado. **Shenford Rifle Club**, Mr. O. P. Olson, Secretary, Lisbon, North Dakota. **Canistota Rifle and Pistol Club**, Mr. Benton McConnell, Secretary, 44 Russell Street, Canistota, New York. **Poughkeepsie Rifle Club**, Mr. H. A. Decker, Secretary, 323 Church Street, Poughkeepsie, New York. **Post 401 American Legion Rifle Club**, Mr. Ross L. Raymond, Secretary, Little Rock, California. **Colanese Rifle and Pistol Club**, Mr. H. T. Humphreys, Secretary, Route #5, Cumberland, Maryland. **Brass City Rifle Club**, Mr. Louis Eastwood, Jr., Secretary, 105 Ridgely Avenue, Waterbury, Connecticut. **Gtraard Rifle and Pistol Club**, Mr. Paul J. Eggleston, Secretary, Plates, Pennsylvania.

**Castle Williams Rifle and Pistol Club**, Mr. C. R. Hinds, Secretary, 453 East Center, Decatur, Illinois. **Niantic Fire Department, Inc.**, Mr. Joseph Holland, Secretary, Niantic, Connecticut. **Sylvan Rod and Gun Club, Inc.**, Mr. Eric Carlson, Secretary, 4920 N. Hoyne Avenue, Chicago, Illinois. **Range and Trail Gun Club**, Mr. H. J. Hartenfels, Secretary, 1156 Van Nest Avenue, New York City, New York. **Wabasso Gun Club**, Mr. D. B. Sowle, Secretary, Wabasso, Minnesota. **Capital Rifle Club**, Mr. Frederick G. Waite, Secretary, 5 School Street, Montpelier, Vermont. **Canton Rifle Club**, Mr. Hugh H. Smathers, Secretary, Route 1, Box 74, Canton, North Carolina. **Coco Rifle Club**, Mr. Clifford K. Anderson, Secretary, 7159 S. Wabash Avenue, Chicago, Illinois. **Scintilla Gun Club**, Mr. H. C. Walters, Secretary, 13 Oak Avenue, Sidney, New York. **Cowanhamcock Rod & Gun Club**, Mr. E. C. Snyder, Secretary, Rural Valley, Pennsylvania. **Michigan City Rifle and Pistol Club**, Mr. Claude H. Rhoads, Secretary, 908 S. Pine Street, Michigan City, Indiana. **Wittenberg Rifle Club**, Mr. Margaret Schlegel, Secretary, Russells Point, Ohio.

**Grover Cleveland High School R. C. for Girls**, Miss Evelyn R. Mettler, Fac. Adv., Grover Cleveland High School, Ridgewood, Queens, N. Y. C., New York. **Mercury Gun Club**, Mr. J. Lester Truman, Secretary, 2623 Linnsay Street, Chester, Pennsylvania. **Huntington Amateur Rifle Club**, Mr. John F. McIntosh, Secretary, Huntington, New York. **Chickasaw Rifle Club**, Mr. W. Bradnack, Instructor, Phoenix Hotel, 192 Calhoun Avenue, Memphis, Tennessee. **Elba High School Junior Rifle Club**, Mr. George M. Talbot, Instructor, Elba, New York. **Allderdice Rifle Club**, Mr. Harry Soles, Instructor, Allderdice High School, Pittsburgh, Pennsylvania. **South Sevier High School Rifle Club**, Lt. Ellis M. Wade, Instructor, c/o South Sevier High School, Monroe, Utah. **McKinley Rifle Club**, Mr. Carl A. Witte, Instructor, 98 Proctor Avenue, Buffalo, New York. **East Side Rifle Club**, Mr. Arthur A. Gray, Instructor, 26 Moessner Avenue, Union, New Jersey. **Eastern District High School Rifle Club**, Mr. Alvin A. Borten, Instructor, 19 Stratford Place, Newark, New Jersey. **Schraalenburgh Rifle Club**, Mr. Chas. E. Septlands, Jr., Instructor, 31 Merritt Avenue, Bergenfield, New Jersey. **Troop #50 Rifle Club**, Mr. W. L. Hand, Instructor, 32 Johnson, New Bern, North Carolina.

**V. F. W. Talahi Rifle Club**, Mr. C. H. Denney, Instructor, 243 N. Martinson, Wichita, Kansas. **Flint Junior Rifle Club**, Mr. E. A. Townsend, Instructor, 2525 Proctor Street, Flint, Michigan. **Rising Sun Junior Rifle Club**, Mr. E. V. Menefee, Rising Sun, Indiana. **Camp Eastman Committee B. S. A. Rifle Club**, Mr. George D. Hedrick, Instructor, 216 Eisfeld Building, Burlington, Iowa. **Youngstown Junior Rifle Club**, Mr. Christopher Troeschler, Instructor, 703 Fairmont Avenue, Youngstown, Ohio. **Omak Junior Rifle Association**, Mr. Fred Smith, Instructor, Box 456, Omak, Washington. **Lone Pine Rifle Club**, Mr. Paul A. Gillespie, Instructor, 1904 13th Avenue, Greeley, Colorado. **Seaboard Boys and Girls Rifle Club**, Mr. Edwin K. Martin, Instructor, 1305 N. Conrad, Palestine, Texas. **Eastern District High School Rifle Club**, Mr. Alvin A. Borten, Instructor, 19 Stratford Place, Newark, New Jersey.

## THE AMERICAN RIFLEMAN



Conducted by F. C. Ness

## Inexpensive Scope Sights

**W**HAT follows is a recounting of first impressions of a few cheap glass sights after examination but before trial. Before giving a critical review a thorough practical try-out will be necessary, because some trouble in one form or another with these outfits may be expected. These low-price scopes are not built for heavy recoil and should be used only on rifles of .22 rim-fire or .22-Hornet caliber. What appeals to me particularly is the low cost, which now will enable almost any shooter to get first-hand knowledge of the superior principle of aim of the scope sight and of its several advantages. This improved sighting equipment, once universally employed, will also serve to more accurately classify rifles by developing their true ability to group, thus permitting more exact comparisons in direct tests.

### The 22 Junior Fieldscope

The Lyman Gun Sight Corporation offers a complete 2½-X scope sight, including tap and drill, for \$12.50. The scope is 12½ inches long with a plain ¾-inch tube, finished a dull black. The clear aperture of the objective appears to be 11-mm, and the exit pupil 3-mm. The field claimed is 38 feet at 100 yards and the eye relief is 1½ inches. The definition and image brightness are good enough to be entirely practical for fair conditions, but it would not be a good scope for poor light, early or late in the day, or in deep woods on cloudy days. The single cross-hair reticle is very good. The focus is fixed.

The mount is 4 inches long and is rigidly clamped to the scope with the holding rings spaced 3-9/16 inches between centers. This arrangement permits changing the location to suit any shooter's eye position on practically any rifle for proper

eye relief. A half of each clamp is an integral part of the base joining both rings. This is screw-fastened to a channel-form bracket which in turn is held to the mount-base proper by two screws. The base has a horizontal-flat, which is concaved to fit a round rifle barrel, and two holes for the attaching screws. These holes are spaced to conform with those of regular scope blocks for convenient attachment to rifles already drilled and tapped for standard scope bases.

The clamp part pivots on two screws in the front end of the base part for horizontal and vertical adjustments respectively, the zero change being controlled by thumb screws at the rear end of the mount. It is not well adapted for frequent change of zero, being designed merely for sighting-in. The parts mentioned are fairly light, the entire outfit weighing only 12 ounces. Such sights will, of course, be most popularly used on light rifles for informal target practice, plinking and small-game shooting.

There is some question about the adequacy of that single anchorage point on the rifle from which the outfit overhangs, making it vulnerable to bumps. Since there are no springs to modify the blow, the two holding screws must take any such strain, which is, of course, increased by the leverage of the over-hang. How this weakest point will stand up under normal usage will be determined in time. I see an advantage in it, because under a severe bump it would give way first and probably save the scope from serious damage. Iron sights can be left on and used with this scope on the rifle.

### The Wee-Weaver 3-29

W. R. Weaver offers his Model-3-29 scope sight complete at \$7.70. It is a 3X scope with a fine, small, flat-top, taper

aiming post and a field of 29 feet at 100 yards. The eye relief is 3 inches, and it is built for rifles in the .25-20 and .32-20 class, which includes the .22 and .25 rim fire, the .22 Hornet and the .22-3000 Lovell. The clear objective appears to be 11-mm and the exit pupil 3-mm. The definition and image brightness are fair, not nearly as good as the standard 3-30 Weaver. The post reticle, however, helps adapt the scope for successful employment in fairly poor light. This ¾-inch scope is only 10 inches long and the complete outfit weighs but a half-pound. The focus is fixed.

The mounts are clamped on the tube and have V-shaped feet which rest on top of the rifle, being held down by a retainer spring similar to that of the standard 3-30 Weaver. The front mount, which holds the retainer spring, is located on the rifle by a taper hole in one of the feet which fits a fillster-head screw fixed in receiver hood or barrel. Adjustments for zero are effected by varying the angle of the rear mount and the exact position of the scope in that mount by varying the tension of its clamping screws on top and bottom. This is done through the trial-and-error method and by simple employment of a screw driver.

This Weaver is the strongest and most practical cheap scope I have seen to date and I believe it is going to prove comparatively invulnerable to ordinary rough usage on any plinking rifle or small-game rifle. Iron sights cannot be used with the Weaver on the rifle, but it can be lifted off in a moment and placed in the pocket or back on the gun with little trouble.

### The Mossberg No. 6 Scope

O. F. Mossberg & Sons have a new 4X scope and side-bracket mount for .22-caliber rifles which they list at \$7.50,



complete with rubber eye cup for the scope. The scope is 15 $\frac{3}{8}$  inches long and the lens diameter is  $\frac{3}{8}$ -inch, post or cross-hair reticule being optional. I tried the pilot model several months ago and was favorably impressed with the optical qualities, which were better than I deemed possible at such low cost. Light and definition were very good but not adapted for poor light conditions, which call for a high-grade, low-power hunting scope.

The scope-rings of the mount are carried on a solid arm, which at its middle point fits a broad dove-tail slot in an auxiliary part fastened to the left side of the rifle receiver. The mount and scope as a unit can be raised or lowered for regulating the height of scope line. In other words, the height of the scope can conveniently be made to conform with the requirements of bolt handle or iron sights on any rifle as required. This convenient arrangement also introduces a weakness, as any blow or bump on the scope or mount causes a strain on the two screws which hold the dovetail block to the receiver.

The adjustments for zeroing the scope are carried in the front mount ring. This is a reversal of the conventional method and has the advantage of maintaining a fixed position of the eye piece no matter what elevation or windage movement may be applied to the scope forward. Graduated thimbles afford  $\frac{1}{2}$ -minute control of zero adjustment in both planes. The mount ring is split and a large-head thumb screw is provided for convenient locking of the adjustment. This convenient micrometer control and the power of the scope adapt it for target shooting. These features make the Mossberg No. 6 scope sight an excellent outfit for any boys' rifle or target-training .22 for which more or less frequent changes in adjustment are necessary.

#### UNERTL SMALL-GAME SCOPE

**J**OHN UNERTL, who makes that excellent 1 $\frac{1}{4}$ -inch high-power target scope, sent me one of his 4X small-game scopes. These are also made in 3X, same specifications. It is a good scope with excellent definition and image brightness. With post reticule it can be used late in the day or in deep woods. My 4X came with cross-hair reticule. Its 18-inch length adapts it for location requirements of any rifle or shooter for proper eye relief. The eye relief of the instrument is about 2 inches. The field appears to be about 26 feet wide at 100 yards. The clear objective aperture appears to be 12-mm and the exit pupil 3.5-mm. The focus is fixed.

It is a high-grade scope of excellent construction and neat form. The  $\frac{3}{4}$ -inch tube is swelled at both ends to accommodate full-diameter lenses. There is a solid square rib on top to fit the Fecker front mount. Focus for individual vision is done by turning the eye piece in or out and then locking the adjustment with a neat knurled collar. A feature I particularly like is the provision of threaded metal caps to protect the lenses while the scope is out of actual employment.

#### NEW NOSKE SCOPE SIGHTS

**T**O my way of thinking, R. Noske, San Carlos, California, has adopted a sensible policy in the manufacture of his excellent Noske Fieldscope. In short, he has dropped the windage-adjustment feature of his mounts and has definitely returned it to the tube of the scope. I have been afraid of that Noske windage-mount and have cautiously avoided recommending any Noske combination but the solid mount with bolt-lock or double-locking screws. Now Noske has eased the situation by dropping manufacture of all adjustable mounts. He carries his new policy consistently through his entire line, including even his little Mascot Fieldscope, which is furnished with solid mount for .22-caliber rifles at \$27.00 complete. This scope is also furnished with regular mounts for high-position on high-power rifles at \$37.00 complete.

The Mascot Fieldscope is a 3X instrument with 2 $\frac{1}{2}$ -inch eye relief, which calls for a high position to clear the bolt handle and safety levers of certain arms. This scope has the Type-B internal adjustments, which were worked out to meet a lower-cost demand, impossible to meet with the hand-made Type-A internal adjustments. The latter (Type-A grade) should be chosen for any purpose which involves frequent changes of adjustment. The Type-B adjustments are satisfactory for any sporting rifle which is zeroed and locked at midrange for a definite load. The Noske Fieldscopes No. 1, 2, 3, and 4 all have long eye relief to permit a low-position on any rifle. Instruments No. 1 (2 $\frac{1}{2}$ X) and 3 (4X) have Type-A internal adjustments and cost \$52.00 and \$54.00, respectively. Instruments No. 2 (2 $\frac{1}{2}$ X) and 4 (4X) have Type-B internal adjustments and cost \$34.00 and \$36.00, respectively.

The New Noske solid mounts for these scopes, having been simplified, are stronger and neater. One model has a thumb-screw bolt-lock which should be chosen for the purpose of frequent removal and replacement on the permanent base. The other model has two capstan-

head screws which afford a very strong lock but are less conveniently loosened and tightened when the scope is to be detached and replaced. Both mounts are identical in other respects. Both mounts hold the instrument in low-position close to the top of the receiver, where it belongs for fullest efficiency. Both command the same price, which is \$16.00.

In order to acquaint themselves with the new Noske equipment, members should send a three-cent stamp to Mr. Noske for his new catalog, which gives complete details with illustrations.

#### The Pachmayr Service

The permanent base for the Noske scope and mount must be properly attached to the rifle, and I would particularly recommend Frank Pachmayr, 1220 South Grand Avenue, Los Angeles, California, for this service. This firm has made a special feature of properly mounting high-grade Noske Fieldscopes and do a most excellent job of it. Their special base is long and strong and made to exactly fit the contour of the rifle receiver. It gives not only the lowest possible position on any rifle but the very strongest attachment as well.

#### AN INEXPENSIVE .30-'06 GAUGE

**L.** E. WILSON, expert shot and tool-maker of Cashmere, Washington, has solved the problem of supplying reloaders and users of the .30-'06 caliber with an accurate and practical case-gauge at moderate cost. As described in the March Dope Bag, Mr. Wilson makes throat gauges, headspace gauges and micrometer cartridge-gauges all in .30-'06 caliber, any of which cost about ten dollars, making them too expensive for the average shooter. The new gauge is a more simple gadget which can be furnished at less than half the price of the other Wilson equipment mentioned above.

The new Wilson gauge is a simple die carefully bored for cone or shoulder position and accurately milled at each end with a step to give the maximum and minimum tolerance for overall case length and cone-to-base length, respectively. A fired case is dropped into the die at the top and if the rifle chamber, headspace, or sizing-tool adjustment was within the normal, allowable limits, the head of the case will rest at some point between the extreme end of the die and the milled step. This is also the result when new cases are tried. On the other hand, an improperly sized case will settle more deeply in the die and the case head will be found below the milled step, indicating

improper adjustment of the full-length shell sizer. Likewise, when the head of a fired case extends above the extreme end of the die it indicates excessive stretching in the rifle or too much head-space. The sample gauge checked perfectly in these respects when tried with different cases obtained under known conditions.

In addition, the bottom end of the die furnishes a check on stretched case-necks or excessive neck length, when the mouth of the case fails to register between the extreme end of the die and the step milled in that end. When the cone-to-base length registers normal, the die is reversed to observe the relative position of the case mouth. If it happens to be below the milled step the neck is abnormally short. If the case mouth protrudes beyond the extreme end the neck has abnormal length. It is a very useful and desirable gauge.

#### A RESHAPED HORNET CARTRIDGE

MEMBER J. E. Zoerb of Greenway, South Dakota, did not like the shape of the standard Hornet cartridge, and, having the means, ability and equipment, he set about altering it and the chamber of his 28-inch Winchester Musket. He shortened the neck by moving the shoulder of the Hornet case forward. This gave a more abrupt shoulder and greater air-space to lower the density of loading with his favorite handload, which is 10 grains No. 2400 powder behind the W. R. A. 45-grain soft-point bullet. According to the sample case the shoulder has been moved forward about 1/16 inch, and the other dimensions of the reshaped cartridge are as follows:

Overall Length	1.7969"
Case Length	1.3828"
Neck Length	.1875"
Neck Diameter	.2400"
Shoulder Diameter	.2770"
Head Diameter	.2975"

The groups, fired for impact at 50 feet, measure ¼ inch to 5/16 inch, and the 100-yard group measures 1⅛ inches. The normal zero was 0.35 minutes to the right of center in calm weather. A fresh breeze moved the impact 0.175 minutes of angle farther to the right. A strong wind moved the impact 1.75 minutes of angle, which would be over two inches at 100 yards. There were quartering winds from 7 o'clock and 1:30, respectively. A cross wind would double the movement of the group. The elevation did not change at temperatures varying from 10 degrees to 55 degrees on three days, indicating that the rifle zero did not change. At 50 feet the W. R. A. bullet in Mr. Zoerb's load penetrated quarter-inch iron plate cleanly but was stopped by 5/16-inch steel.

## The .22-3000 Lovell Cartridge

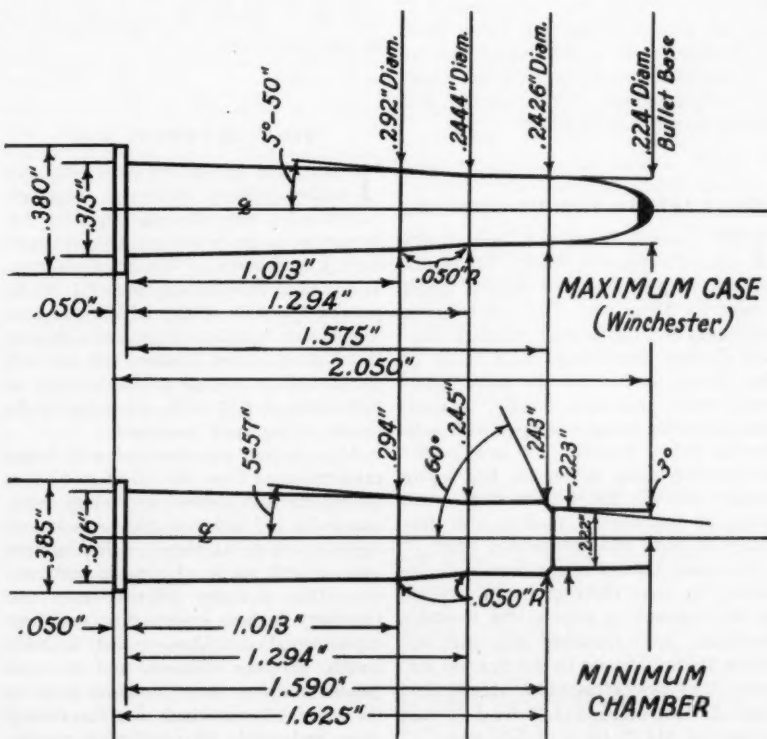
COLONEL WHELEN'S wind-deflection tests of the 46-grain Hornet bullet at 2625 f.-s. muzzle velocity, as reported in *THE AMERICAN RIFLEMAN* last month, indicated that the center of impact of this cartridge would shift seven inches at 200 yards in a cross wind of a strength which meteorologists classify as a moderate breeze. At 100 yards this would amount to a deflection of fully 2½ inches, which is sufficient to completely miss a large woodchuck; and this serves to explain why many target-shooters and small-game hunters alike are seeking an improvement on the little .22 Hornet, through higher velocities or by the employment of heavier or better-shaped bullets. For this purpose a case of somewhat larger capacity is required.

Of the many special .22-caliber center-fire cartridges, the .22-3000 Lovell (made by necking-down the .25-20 Single-Shot case) is the most logical for use on small game, and the most efficient for that purpose, although others may be more powerful. This Lovell cartridge is finely accurate in suitable rifles, is low in cost, has no appreciable recoil or loud report, has enough power but not too much, and has proven exceptionally good as a killer of varmints. Being light and small in size,

economical to handload, convenient to handle and to single-load in any suitable action, it satisfies every requirement of an ideal small-game cartridge and target load.

According to Hervey Lovell who developed the cartridge, the .22-3000 chronographed 3000 f.-s. in the M1 Springfield barrel on a Krag action with a charge of 13 grains weight of I. M. R. powder No. 1204 behind the Winchester 46-grain Hornet bullet, using W. R. A. cases and primers. Lovell says the Remington cases in this size are .002-inch thinner than the Winchester cases, and will not hold the bullets tightly. The overall length of this cartridge, properly loaded, is 2.050 inches, and the standard bullet diameter is .224-inch. Lovell finds that usually 13.1 grains weight of No. 1204 powder shoots best in barrels having .222-inch groove diameter, while 14 grains is a better charge for barrels having a groove diameter of .223-inch.

The Sisk 55-grain bullet is also a very satisfactory performer in the .22-3000, and it usually gives the same center of impact at 100 yards as does the lighter Hornet bullet. With this 55-grain bullet the powder charge must be cut to 12.5 or 12.7 grains weight in a barrel having a groove diameter of .222-inch, while 13 grains of



No. 1204 can be used behind the 55-grain bullet when the groove diameter is .223-inch. To quote Lovell: "Best groups are had by slightly altering charges to suit each individual barrel; and the fired cases do best work at target. I used my cases for 25 loadings, and they appear to be good for as many more."

And again: "The Stevens 417 action with sloppy-fitting screws and link-pin will not hold the above loads. However, the accuracy of 417 Stevens barrel is fine, and a frame of cast steel has ample strength. The Ballard action holds its headspace, as its screws are closely fitted. I like the 'high-side' Winchester Single Shot action best, as the Sharps-Borchardt has poor extractors and no provision for withdrawing the firing-pin, causing the point to shear off. With all single-shot actions the firing-pin must be bushed to a close fit. The pin should protrude .050-inch, and its diameter must not be over .060-inch. This is the most important part of the job."

Because this cartridge is almost ideal for its purpose, it deserves to be given an opportunity to prove its worth; and to accomplish this the dimensions of the cartridge and of the barrel chamber must be standardized. To promote this standardization we are publishing herewith a dimensioned drawing of the .22-3000 cartridge and chamber, prepared by Mr. Lovell himself and giving the exact dimensions which he employs. We trust that every arms manufacturer and individual gunsmith who may be interested in this fine little cartridge, will follow these specifications. It is also hoped that at least one of our arms companies will recognize the possibilities of this cartridge, and give it serious consideration.

#### NEW CASWELL TARGET CARRIER

**T**HE Caswell Shooting Gallery Equipment Company of Anoka, Minnesota, can now furnish their new Type-K target carrier for home use. The target holder extensions for the heavier standard Caswell carriers interchange with those of this lighter model and the same hand-wheel, with aluminum handle, is used. This K-Model is also equipped with ball-bearing pulley wheels. The new carrier is, however, made lighter for less severe service and will not withstand as much abuse as the heavier models, still furnished in plain and ball-bearing type.

The new lighter-weight carrier is intended for small clubs, or for private use in the basement or attic of the shooter's residence. It is furnished only with 90° socket for attachment to any vertical surface. The prices complete are: \$12.50 for a 25-foot range, \$13.75 for a 50-foot range and \$14.50 for a 75-foot range.

#### STEVENS SLING EQUIPMENT

**T**HE particular Stevens low-price, small-bore, bolt-action rifles which we recommend for training purposes are the 053 and 055 Single-Shot rifles and the 056 clip-magazine repeater. The 055 and 056 models are slightly bigger and heavier, making them that much better adapted for adult use. These rifles lack only sling equipment to complete them for target shooting in all N. R. A. positions. To my criticism on that score Mr. T. L. Hopkins replies with the information that sling equipment can be furnished on any of these rifles at sixty cents extra for either 7/8-inch or 1 1/4-inch slings.

The new Stevens sling loops are of round material instead of the flat stock formerly made, and they are now much neater. For heavier forestocks front swivels with outside bands can be furnished, but those quoted above have wood screws for simple and direct attachment to the forestock, as well as to the butt of these rifles.

Both of the M-056 repeaters we tried proved very accurate for moderate-price arms. The last one received was tested at the factory with Palma Match over the Stevens machine-rest range which measures 65 yards. The three 10-shot groups measure 1 1/4, 15/16, and 1 inches, respectively.

The 053 and 055 single-shots can also be obtained in .22 W.R.F. and .25 Stevens rim-fire caliber for small-game work. I hope to try the heavier M-055 in one or both these calibers for Dope Bag report in some later issue.

#### THAT .22-SWEANY JOB

**T**HIS data on experiments with .22-caliber jacketed bullets at ultra-high velocities has been accumulating since last November in the letters regularly received from J. B. Sweany of Winters, California. In the early experiments he used I. M. R. powder No. 3031 in the .250-Savage case with Hornet bullets and obtained a drop of about three inches between 100 and 200 yards, and an average group diameter of 1.39 inches at 100 yards, according to the targets viewed and measured.

After he had experimented with larger cases reshaped from the .30-'06 and 7-mm caliber, his data showed an average group size under 1 1/2 inches at 100 yards and an average drop of less than 2 inches between 100 and 200 yards. He made and used more than a dozen different cases and chambers in these experiments, and these experimental cartridges varied in body length, shoulder diameter and in taper greater and less than the same parts of the straight 7-mm which was also necked down and tried. In case-length, powder

capacity and load, some of these different cartridges varied as follows: (based on No. 3031 Powder and W. R. A. 45-grain bullets.)

#### .22-Sweany Experimental Loads

Length	Capacity	Max. Load	Drop
48.5 mm.	38 grs.	36 grs.	2 3/4"
60 mm.	45 grs.	42 grs.	3 1/2"
62 mm.	42 grs.	40 grs.	2 "
55 mm.	43 grs.	39 grs.	1 3/4"

Sweany's present experiments are being conducted with new du Pont propellants in a case of a particular size and shape which his experiments have developed and he is devoting his efforts to developing ideal loads with longer pointed bullets weighing between 55 and 60 grains. Sweany's recent reports indicate more favorable combustion characteristics with the new I. M. R. powder, appreciably less drop and wind drift with the new bullets and improved accuracy with both. R. B. Sisk has improved the jacket material of his .22-caliber bullets and Sweany says his latest lot of 55-grain Sisk bullets develop no metal fouling, even when driven at extreme velocities.

The Sweany chambering service for the new cartridge will cost about \$15.00 with every job held rigidly to a tolerance of .0005 inch and a clearance of .002 inch. Sweany employs a special throat or bullet lead which proved very successful in his .22 Hornet jobs and which he has again developed for the new .22-Sweany caliber. The Sweany loading tools include dies for reducing 7-mm or .30-'06 cases in two or three steps as required. Complete outfits will cost from \$13.00 to \$20.00. In both the reshaping and resizing departments Sweany's loading tools are designed to insure concentricity of the cases both outside and inside. No probable date of delivery can be set until formal announcement by Sweany is made in **THE AMERICAN RIFLEMAN**.

#### STOEGER PEERLESS RESTOCKING

**B**EING sold by "Stoeger's Gun Stock Pamphlet," which every shooter should have (and can for one thin dime), I ordered a Stoeger Peerless stock for my Remington N. R. A. Target Model-34 rifle. This stock is of good American walnut, nicely oil finished and completely equipped including a long trigger to conform with the deeper wood, at that place, of the improved stock. Incidentally, I find the longer trigger is not absolutely necessary and am using the original Remington trigger with the new Stoeger stock.

The N. R. A. Target grade M-34 Remington is well worthy of a fine Stoeger stock. It is remarkably accurate for a low-price rifle, has an excellent action with



straight-line feed and speed lock, a full-capacity tubular magazine and target sights with no slot in the barrel for open sights, which latter is an admirable feature. Because it has no clip which a boy's father or coach can remove, it is better adapted for adults than for boys. For adults the rifle is too light as issued and the stock is meager in proportion for full-grown arms and hands. Happily, the Stoeger Peerless stock (furnished rough-turned at \$5.00) corrects these faults by its proper dimensions and its additional weight.

The complete stock costs \$12.00, plus \$1.00 for the long trigger, plus \$1.00 for factory-fitting if desired. French walnut commands \$2.50 extra. Checkering fore-end and pistol grip costs \$5.50. The standard equipment which comes on the stock includes shotgun-type, steel butt-plate, pistol grip cap and quick-detachable swivels. All Peerless stocks have cheek pieces. The drop from line of sight is  $1\frac{5}{8} \times 2\frac{5}{8}$  inches and the length, butt to trigger, is  $13\frac{3}{4}$  inches. The very favorable rifle weight is  $6\frac{1}{4}$  pounds, which makes the heft of the M-34 rifle about right. The feel is also right, thanks to that fuller grip and longer reach provided by the Stoeger forestock which extends 17 inches forward of the trigger.

The new man-size stock is  $30\frac{1}{2}$  inches overall and adds beauty to this gun, which was not particularly attractive as issued. I liked its looks so well I fitted the new Wee-Weaver 3-29 scope sight which is excellently adapted for plinking or shots at running game. I find the scope-sight line is just  $9/16$  inch higher than the iron sights, making the total drop to the Stoeger comb less than  $2\frac{1}{4}$  inches. Those detachable swivels seem out of harmony and can be left off. At rock bottom cost this entire outfit (rifle, stock and scope) could be had for less than \$25.00.

#### ANOTHER .22-4000 CALIBER

A LETTER from John G. Schnerring, probably best known as ballistic expert of Frankford Arsenal, says he has been experimenting with special .22-caliber bullets in the necked-down 7-mm case over the past six months. He has been working on this with Mr. Sedgley of R. F. Sedgley, Inc., which firm is preparing to furnish rifles and special cases in the new caliber. These were shown at the Sedgley display booth during the recent sport show in Philadelphia.

Mr. Schnerring believes the 7-mm case to be the best adapted for this purpose, and found I. M. R. powder No. 3031 gave better results than any other propellant available for their experiment. He reports the accuracy of Sedgley rifles in this cali-

ber, with the 56-grain open-point bullet, at 100 yards, runs from  $\frac{3}{4}$  inch for 5 shots to  $1\frac{7}{8}$  inches for 10 shots.

The load used in penetration tests with the 45-grain soft-point Hornet bullet was 42 grains weight of No. 3031 powder and it was fired in a 24-inch barrel on the Springfield action. In this test  $5/16$ -inch armour plate was sloped toward the shooter at an angle of  $60^\circ$  from the horizontal, and at 50 yards 5 consecutive Hornet bullets perforated the tough plate despite its unfavorable slope. The 45-grain bullet was chronographed at 78 feet from the muzzle where 3999 f.-s. was registered. At another ballistic station the same load and bullet gave 4059 f.-s. at 53 feet from the muzzle.

In a different penetration test on mild steel the 56-grain bullet and load bested the M1 Service bullet.

At present the Sedgley-Schnerring .22-400 cartridge is being improved by developments involving improved components, especially as to powder and cases.

#### NEW WEAVER AND LYMAN SCOPE SIGHTS

ON our printer's deadline date we managed to try the 22 Junior Lyman (\$12.50) scope and the (\$7.70) 3-29 Wee-Weaver, and are glad we did, because we found both outfits to be more practical than we had expected. The Lyman was tried on the  $417\frac{1}{2}$  Stevens with Palma Match ammunition, and it brought out the truly fine accuracy of that excellent target rifle. The Weaver was used on the M-34 Remington in connection with a Stoeger Peerless stock, and this seven-pound combination seemed to be almost ideal for plinking purposes.

Neither scope was particularly difficult in the matter of obtaining approximate alignment but both were plenty hard to zero exactly. In fact, neither is as yet perfectly sighted-in, even after an entire afternoon spent in shooting from prone position with and without front-hand rest. Both gave about the same definition (inferior to high-grade scopes, of course) but in relative optical quality the Lyman seemed to shade the Weaver with more perfect and more even correction throughout the field of view.

To offset this the Weaver had a brighter image and a better reticle than the heavy field-obscuring cross hair of the Lyman. The Weaver aiming post and its relatively low position on the gun makes it an appreciably quicker sight than the Lyman, and also better equipped for shooting in poor light. On the other hand, the Lyman seems to be more finely accurate for target shooting. The Lyman mount is also somewhat more definite in its adjustments and,

therefore, better adapted for refining the zero in target shooting or for employment of the one outfit on two or more rifles. While the Lyman is rigid, and strong enough to be entirely practical, it is much more vulnerable to hard knocks or severe bumps than the very strong Weaver which is built for practical rough handling afield.

Although either outfit should be zeroed and locked and then used undisturbed on that one rifle, both can be removed and replaced without affecting the zero adjustments. The Lyman is comparatively easy to attach on any gun which is already drilled for standard scope bases. The Weaver requires some fitting and attaching it on one gun took me at least ten times as long as the Lyman required for two different rifles.

Both are sound, practical sights, and are worth more than their low cost would indicate. Each has advantages over the other for certain purposes, so that to determine which is the better would depend upon personal preference and individual requirements. To summarize, the Weaver is stronger, cheaper, faster and probably it is better adapted for plinking, moving game, poor light and rough handling. The Lyman is more accurate, easier to attach, more convenient to zero, requiring less time and ammunition for the purpose, and, probably it is better adapted for employment on more than one gun. If choice is carefully made in accordance with the conditions of intended employment either or both outfits can be purchased without risk of disappointment, providing the quality of a high-grade scope sight is not expected.

We are glad these practical scope sights are available at such reasonable prices, and hope they will serve to greatly popularize shooting with this type of sight, particularly in the game fields and on the numerous home-testing ranges. Should it develop, such universal employment of scope sights will serve to place credit for rifle accuracy where it is due. To cite an example of this, we had not fully realized the true worth of the  $417\frac{1}{2}$  Stevens as a full-fledged target-match rifle until we fitted one of these low-price scope sights and tried it prone with match-type ammunition.

#### Questions and Answers

EVERY week thousands of letters are received at N. R. A. headquarters and are routed to the eight different Departments. When a letter must be relayed for reply to several departments in turn, it is subject to delays and interoffice traffic is increased. On the other hand, when letters are confined to a separate N. R. A. function they can go directly to the proper department for final reply and, obviously, the office is relieved of unnecessary congestion, likelihood of loss is lessened and prompt service to the member is made possible.

All questions relating to guns, ammunition, shooting, shooting equipment and accessories should be confined to separate letters addressed to the Dope Bag. When it is desired to include Dope Bag questions in general N. R. A. correspondence, such questions in-

tended for this department should be written on separate paper, marked for the Dope Bag and have the member's name and address LEGIBLY PRINTED on same.

### A NEW RIFLE-MAKER

Members will be interested in learning the advent of a new firm in the fine-rifle field, under the firm name of Roberts & Kimball at Woburn, Mass., which will bring to the market a new rifle in .25 Roberts caliber. The firm will introduce a unique selling plan that will take all the gamble out of fine-rifle buying, for each and every Roberts Target Rifle which goes out will have been range tested by Mr. Roberts, will have to show a high standard of accuracy and the actual targets made will be supplied with each rifle.

No cartridge, in recent years, has aroused more comment than has the .25 Roberts. Now that the Remington Arms Company has added it to its regular line as the ".257 Remington-Roberts," this cartridge is taken out of the hand-loading class and becomes a fine all-around cartridge. It is very accurate and is also a killer. It has been used successfully on nearly every game animal on this continent, from Kodiak bears down to woodchucks. Chucks have been killed with the .25 Roberts at extremely long ranges with good scope-sighted rifles in the hands of expert riflemen.

The rifle will be built on a Mauser action with a heavy nickel-steel barrel, finely rifled with minimum tolerance. Great care will be taken with the chambering, as a close chamber is essential for fine accuracy. The stock will be good, the fitting carefully done, and particular attention will be given to the inletting and bedding. All barrels will be drilled for scope blocks and scopes will be sold with the rifle, all sighted-in.

The standard hunting rifle will be made with nickel-steel tapered barrels having the same minimum tolerance, but the chambers will be of slightly larger tolerance as this will be necessary in a hunting arm. Both half-stocks and full-stocks will be standard. Deliveries will begin about July first and orders will be filled in the order received.

Mr. N. H. Roberts by occupation is a teacher of commercial subjects and an accountant, his present residence being Berlin, N. H. His activities in the rifle field have been of a scientific character. His knowledge of various rifles, their performance and ballistics is extensive. His part of the business will be engineering and testing.

Mr. W. G. C. Kimball is president of Baker & Kimball, Inc., sheepskin tanners, Lynn, Mass. He has had a life-long love for guns, has a large personal collection, and has conducted the gun department for his firm for about fifteen years. His part in the new firm will be designing and distribution. Both partners are sportsmen who understand the customer's viewpoint.

### WANTS SPECIAL LOADS

I HAVE been reloading for the last 15 years but find I do not know it all, and I am coming to you for a bit of advice.

I am trying to work up a reduced load in a .30-'06 Enfield, using the 169-grain Squibb bullet with gallery powder No. 75 and duPont No. 1. Twenty grains of either gives fair accuracy, but I want something pretty good. Pacific told me this bullet was far more accurate than the 150-grain Bond plain-base bullet, but I have not found this

so. What is the correct load using No. 18 duPont and 172-grain boat-tail in the .30-'06?

I have some Savage No. 303 powder that is very old and I have used this powder for mild loads. Could you tell me about the limit in .30-'06 caliber with 172-grain bullet?

I have made groups at 200 yards from a rest with my Enfield that 2-inches would cover, using the 3-30 Weaver telescope and 172-grain bullet.—L. N.

**Answer:** The heaviest load of duPont No. 1 Smokeless powder recommended for the .45-'70 is 32 grains weight behind the 405-grain lead bullet. The heaviest load recommended in the .38-'55 behind a 255-grain lead bullet is 20 grains weight. The heaviest load recommended in the .32-'40 behind the 165-grain lead bullet is 17 grains weight of No. 1 Smokeless. This is a bulk-for-bulk powder, and I hope that these charges will give you some indication which will be helpful to you in determining loads for your .30-'06.

Du Pont No. 75 Gallery Smokeless is intended for lead bullets, and will give you best results behind lead bullets. For a 200-grain lead bullet the heaviest charge recommended in the .30-'06 is 18.5 grains. For the 190-grain gas-check bullet the heaviest charge recommended is 20.0 grains. For the 170-grain lead bullet 11.6 grains weight and for the 154-grain lead bullet 10 to 11.0 grains weight. With the 150-grain metal-jacketed bullet you can use as much as 21.0 grains weight, the maximum charge being 24.0 grains weight, which gives you 1780 f.-s. or 70 f.-s. higher velocity than the 21-grain charge. The maximum load with the 170-grain metal-case bullet is 14.0 grains weight, which gives 1350 f.-s. This should be your maximum load behind the 172-grain M1 Service bullet in the .30-'06. I am sending you a circular on I.M.R. No. 18 so you can pick out your own charges for the M1 Service bullet and for the 169-grain Squibb gas-check bullet.

Not knowing what your .303 Savage cases were loaded with, I would not care to recommend loads for that powder, although it is probably some special lot of I.M.R. Powder No. 17. See the tables on reduced loads.

### EXPERIENCES WITH THE COLT ACE

I HAVE had my Colt Ace since they were first brought out on the market, and have never had much luck with it for accuracy. It has been sent back to the factory on three occasions and still shoots the same. I am wondering if other Ace owners have the same trouble I have had, and also what your experience with it has been. I read of the excellent groups obtained by Major Hatcher, but the results he obtained have been the only reference I have ever seen as to the accuracy of this gun. I will, therefore, be greatly indebted to you if you can throw any light on my problem. My best groups at 25 yards are usually rectangular in form, 2-inch horizontal spread by 6-inch vertical. I have had enough shooting experience to know that if I can hold for 2-inch groups laterally, that it isn't too much to expect approximately the same spread in elevation.

I at first thought the trouble was ignition and had firing pin, spring, etc., replaced by Colt. That failed to cure the trouble, and I then decided that my hold was not uniform, so I studiously practiced holding the gun with the same hold and pressure for each shot, and developed groups that were identical with the

first ones. I have used all the recommended lots and makes of ammunition with the same results. What I'd like to know is the following:

1. Is it possible that I have a "lemon"?
2. Can I expect 2" x 2" groups at 25 yards with this model? (Hatcher's article would indicate it is possible.)
3. Is the trouble ignition?
4. Is this model susceptible to very slight changes in hold?

For your information I have been shooting the .45 Auto since 1914 over Army Qualification Courses. Made my best score this year, 96.5%, and consistently shoot 95-95.5. Also have one leg on "Pistol Distinguished" (1930 Texas Civilian Team).

The .45 Auto is my favorite arm and in fact I have sold all my six guns as they do not fit my hand and as my present ambition is to distinguish only with the pistol (and rifle too). I purchased the Ace for economic training for the .45 as recommended by several of the authorities.

No one here shoots the Ace, so I have no information from that source. Is it a popular gun? I have no means of finding out, except through yourself, and will be glad to have any comments you would care to give me.—G. H. C.

**Answer:** For rapid-fire practice, I prefer the Colt Ace to all other .22-caliber pistols. For accuracy the barrel is equal to the Colt Woodsman, which I consider second to none from the standpoint of accuracy in handguns adapted for rapid-fire practice. In functioning I would place the Woodsman at 100 per cent reliable and the Ace at 97 per cent reliable. About 1/2 per cent of this difference against the Ace is due to ignition, which I consider slightly inferior in this pistol as compared with the Woodsman model. Therefore, the accuracy with an equal barrel cannot be 100 per cent as good.

In shooting for groups at 50 yards I did not notice much difference when using the Ace as compared with other pistols. I am sorry that I do not have my complete record convenient, so that I could get at an average for you. The shooting on a single day means nothing, because I have one record here which shows that I obtained 5 1/2-inch groups at 25 yards and with the same gun on the same day I obtained 6 1/2-inch groups at 50 yards.

I think you will find the new Winchester Precision Stayless cartridge to have excellent ignition characteristics and it should prove accurate in your Ace pistol. However, it may not function reliably enough for rapid-fire practice. For a combination of reliable functioning and good ignition I would suggest such loads as the Western Super Match, the U. S. Kopper Klad and Kopper Klad Speedster and Palma Hi-Speed. All the above loads, of course, with lubricated bullets. I am sure that any of the above which will function reliably in your pistol will give you 2-inch groups at 25 yards.

Because of my hand which is not adapted for the grip, I cannot shoot the Ace as accurately as some other models, but I tried it in our club match, calling for 30 shots slow fire at 50 yards and timed and rapid fire at 25 yards. I averaged 80 with it and blame my holding for losing 20 points out of each 100. To give you an idea I will quote you some of our experiences with different handguns at 25 yards over a 30-shot course slow, timed, and rapid fire as quoted from such figures which I have conveniently before me.

With the Colt Ace the figures are 94, 86 and 92, also 87, 85 and 94, and also 86, 90

and 86. With the H. & R. revolver 84, 78, 89, and also 86, 91, 84 and 88, 89 and 87. With the short Woodsman 92, 89 and 85 and also 92, 85 and 88. With the long-barrel Hi-Standard 94, 84, 86 and 94, 93 and 74.

I hope that the above will be of some assistance to you.

The fact that you obtained improved scores with your .45-caliber pistol indicates that practice with the Ace pistol has been of appreciable benefit to your shooting. The round top front sight could account for the discrepancy between vertical and horizontal dispersion of your groups with the Ace pistol but I think its ignition system is partially responsible. I look for an improved version of this arm in the near future with particular reference to ignition and augmented recoil.

### WANTS A VARMINT S-S.

**I** AM trying to gather some information and would appreciate some help from you. For some time I have been harboring a .38-55 Winchester Single-Shot rifle equipped with a No. 3 barrel, thinking that some time I would convert it into a .22 Hornet. However, I've changed my opinion about the Hornet and have been considering the following calibers: .25-35 Winchester, .22 Hi-Power Savage, and the .250-3,000 Savage.

The thing desired is a flat shooting, high-speed bullet, accurate at 150 to 200 yards and to be used with a scope for chucks and perhaps target shooting. I would expect to reload and would also restock the gun.

At one time Bushnell Smith at Middlebury, Vermont, advised the .25-35 for this purpose, but from the little I have been able to read on the .22 Hi-Power, this should also be accurate and could be reloaded cheaper than the larger .25-35 caliber.

I assume that the S-S. action is strong enough to hold these cases, and I would like to know which caliber you would advise using, and also how to go about this conversion with as little outlay of money as possible. By that I mean could I buy a barrel from Winchester or Savage and have a worthwhile outfit, or would it be necessary to have a barrel made? It would seem to me that the 24-inch tapered round barrel as furnished on the .22 Hi-Power No. 99-E Savage would be too light for the purpose. Would the same apply to the .25-35 barrel on the 64 Winchester? I mention the 64 because of the ramp front sight base fixed on the barrel. Would it be possible to take a Springfield .22 barrel and have it rechambered, or is the twist all wrong for the .22 Hi-Power? Who would you suggest to do this work for me at a reasonable price?

In addition to these questions I would like to have any information on the .22 Hi-Power that you may have in regard to reloading, and what I could expect for accuracy.—R. C. M.

**Answer:** Of the three calibers which you mention for altering your Winchester Single-Shot, the .250 Savage would be the least adapted, because it is a rimless case. In factory cartridges the .25-35 would be the better of the remaining two. It is more accurate than the .22 Hi-Power Savage and could be more cheaply reloaded. The .22 Hi-Power Savage is more powerful, and it is also an accurate cartridge in a properly designed rifle, such as yours would be. I would say that you could expect 2½-inch groups at 100 yards with factory ammunition. The .22 Hi-Power uses a larger bullet than the .22 Hornet bul-

let, and if you wanted to use a regular .22 caliber barrel, you should have this case altered to the Super Hornet by necking it down for Hornet caliber bullets. In other words, this would make a good .22-3,000, such as Hervey Lovell is making, or a good .22 Niedner-Magnum such as is made by the Niedner Rifle Corporation. The M1 .22 caliber Springfield barrel is a bit light for a single-shot action and a two-piece stock. I would prefer a heavier barrel;—a heavy Stevens barrel, or preferably a heavy Winchester barrel. The best Winchester barrel for this purpose is the heavy Hornet blank barrel. You could have this fitted and chambered by Hervey Lovell, 3345 North Gale Street, Indianapolis, Indiana, and you would have an excellent heavy barrel made and fitted by the Niedner Rifle Corporation, Dowagiac, Michigan.

The standard .25-35 Winchester is at its best with the 117-grain bullet, and with your Special .22, using the .25-35 Winchester or .22 Hi-Power Savage necked down to take the .22 Hornet bullet, you would have higher velocity, a better trajectory, and a better killer on such game as woodchuck. The expected accuracy is well advertised and needs no mention.

### HANDLOADING POPE-TYPE AND REGULAR BULLETS

**I** HAVE just purchased an "Enfield" from D.C.M. and wish to use cast bullets and a reduced load for 200-yard target shooting and small-game shooting.

I had better tell you in advance that I know absolutely nothing about handloading, except what I have read in *THE AMERICAN RIFLEMAN* and in the Belding & Mull Hand Book, so any comments on my questions will be earnestly appreciated, and no doubt religiously followed.

1. Do you agree with the method mentioned in Mr. G. G. Hill's article in last September issue of *THE AMERICAN RIFLEMAN*? If this is good practice, I would like to start in this manner, using that bullet and powder charge.

2. Is it worthwhile to purchase a bullet mold? That is, is casting bullets a long tedious process or would it be better to purchase bullets?

3. Is it necessary to size the bullets?

4. What is the cheapest and easiest method of lubricating them?

5. Do you recommend F. A. primers for this purpose?

6. The Belding & Mull Hand Book, page 101, mentions 12 to 20 grains as the correct charge for the B. & M. No. 311168 bullet. How does this charge compare with the charge mentioned in the article referred to?

7. Do you know if these components can be purchased in or near Chicago?

8. Would the B. & M. No. 311169 pointed bullet be as satisfactory as the one previously mentioned? Can it be loaded without tools? Can it be run through the magazine?

9. Is it possible to get a copy of the *RIFLEMAN* that contained an article on remodeling the "Enfield"?

If I have asked too many questions I am sorry, but I would especially like to read your comments on questions 1, 6, 8 and 9.—P. A. A.

**Answer:** I am sending you some dope which you are seeking on the M-1917 rifle and on .30-caliber loads.

A complete reloading outfit will cost from \$30.00 to \$50.00, but by simplifying your load

you could reduce the initial outlay. For general use a Squibb gas-check bullet would be more useful and practical than the special target bullet, represented by B. & M. No. 311168. This bullet has a forward bore riding section and a very wide groove-filling base. In the .30-'06 caliber it was loaded by the Semi-Schuetzen method of reaming the case mouth ⅛ inch deep with a .3125" rose reamer and then using these cases only with this bullet. They were seated loosely and used only for target shooting. In some rifles a charge of 12.5 grains weight No. 80 gave the best accuracy. This load once bested the .22-caliber match rifles at the Metropolitan Indoor 100-Yard Range in a fine .30-'06 rifle.

This bullet cannot well be sized or lubricated, except by the fingers, owing to its shape, described above. If you do not size bullets, you have no control over dimensions and you may not be able to fit your individual rifle. However, there is no reason why you could not try this bullet, and I would suggest buying some from Belding & Mull as cast, or from Guy Loverin, Lancaster, Massachusetts. It is immaterial whether you use Ideal or Belding & Mull make. A .38 Special case full of No. 80 powder holds about 14.0 grains weight. If it is packed, or poured, it will hold more than if it is dipped heaping full with one scoop and then struck off with a round rod. The variation to a careful dipper, or operator, would be about ¼ grain in uniformity. As you know, you can get all components through Belding & Mull.

The best sizing outfit for regular bullets (like B. & M. No. 311150 and No. 311169) at the lowest price is the Belding & Mull Die & Plunger Sizer. For lubricating these bullets you can then set them in a cardboard box or shallow pan and pour melted lubricant around them as deep as the top lubricating groove. When you are ready to use them after the grease hardens, merely shove over them a hollow cylinder, or cake cutter, made from an empty case with the head cut off.

You can make loading blocks by drilling holes in a block of wood and you can make a charge cup by soldering a finishing nail to the side of an empty pistol case of the proper size, or filed to the proper size by the aid of your druggist's scale. Frankford Arsenal primers are excellent for .30-caliber rifles, and for other rifles whose cases will accommodate them in their primer pockets.

When you use a bullet like the Squibb Gas-Check or the 154-grain round-nose, plain-base, lead-alloy bullets, you can carry them like hunting ammunition and use them through the magazine. Also you can size them to fit the groove diameter of your rifle, and then size your case necks to fit such bullets. When sizing is properly done, as in the B. & M. Die & Plunger Bullet Sizer, it also leaves them of a uniform size and with a uniform surface. Outside of this, however, providing they are nicely molded, it is not necessary to size bullets.

### THE MODEL-1895 WINCHESTER IS PRACTICAL WITH SUITABLE AMMUNITION

**MAY** I take this opportunity to ask your advice regarding a rifle which I shoot? This rifle is the Winchester Model-1895, caliber .30, Government '06. Among several big-game rifles that I have this gun seems to be the best suited to my conditions of hunting, therefore, I am reluctant to scrap it, as I have been told to do by certain gun authorities. I purchased this rifle, new, about 9



# ZEISS

**BINOCULARS • RIFLE SCOPES  
SPOTTING SCOPES**

In selecting a Binocular, Rifle Scope or Spotting Scope, remember that optical quality is the important factor—and in this ZEISS has never been surpassed. Many models. [At leading dealers. Write for Literature.

CARL ZEISS, INC., Dept. TZ, 485 Fifth Ave., New York  
728 So. Hill St., Los Angeles



## Schmitt RELOADING TOOLS

915 WASHINGTON AV. S. MINNEAPOLIS, MINN.

SEND SIX CENTS FOR  
DESCRIPTIVE BOOKLET

MOD. 12



LESS TIME LOADING  
MORE TIME SHOOTING



### R-200 Shooting Jacket

We have never had a dissatisfied customer.


Price \$4.25 Postpaid

Send for circular

SUVAL PRODUCTS CO.  
3 Perry St., Binghamton, N. Y.

years ago. It has been fired probably about 700 rounds and seems to be as good as new, as far as I can see. Can you advise me what breech pressures you consider safe for use in this model? Can you recommend any ammunition that can be used with a margin of safety.—C. H.

**Answer:** Many sportsmen who own the Winchester Model 1895 in .30-'06 caliber are very fond of the gun, and if you like yours I see no reason for scrapping it. This rifle is practical for sporting purposes and you can buy sporting ammunition suited for it. The two chief objections, or shortcomings, ascribed to it may not apply at all in your case. One of these is that the cases stretch so that it is not adapted for reloading. The other is that it is not adapted for the Hi-Speed and Express loads. However, you can use any Western or Winchester modern high-velocity loads in this rifle with safety. You might have some extraction trouble with the high-velocity loads, and I would, therefore, recommend



**"HAWK" Scope Stand**  
Cast aluminum, crystal finish, weight 16 oz., height adjustment 19 to 29 inches, long saddle. Fits any scope. BALL joint adjustment, constant tension on Ball, legs held RIGID when changing position of stand. Price, \$4.00. Money refunded if not satisfactory.  
HOWARD F. HAWK GUN CO.  
READING, PENNA.

### Shoot Crows for Sport and Practice

In defense of nesting game and song birds, wage war against these egg-stealing black rascals. Get Olt's Crow Lure today, consisting of 1 (16") Owl, 3 crow decoys, and 1 crow call, complete \$5.85. Olt's Famous Hard Rubber Game Callers are Natural Toned. None better regardless of price. New Mail order call \$1.25; Regular duck call \$1.00; Goose call \$1.50; Hawk call \$1.00; Crow call \$1.00; Red Cedar Turkey call \$1.00; if your dealer cannot supply you, send direct.  
P. S. OLT, Dept. A, Pekin, Illinois.

that you use principally those factory loads with 150-grain Expanding bullet at 2700 f.-s. muzzle velocity or the 220-grain Soft Point bullet at 2200 f.-s. These loads do not develop over 48,000 pounds pressure, for which the rifle is intended, and both the functioning of the action and the accuracy should be at its best with such loads. If you are so inclined at times, you could fire the M1-Service ammunition in this rifle with safety.

### .30-'06 LOADS WITH PYRO D. G.

**W**OULD you please advise me on the following:

The proper load of Pyro D. G. behind the 169-grain Squibb-Miller bullet, caliber .30-'06, and other powders, other than No. 80, that can be used for ranges up to 200 yards.

Also the proper load of Pyro D. G. behind the 170-grain soft point and the 172-grain boat-tail bullet, caliber .30-'06.

Could the 172-grain boat-tail bullet be converted into a good game-killing bullet for deer and similar game by flattening and drilling the point.—H. S. J.

**Answer:** The M1 Service bullet has been successfully used on deer by drilling the point with a hole up to 1/4 inch deep and about 1/16 inch diameter. It is safe to do so with this bullet, because it has a protected base, but it is not safe to do so with the old Service bullets of 150-grain flat-base type, which had an open, or unsealed, core.

Behind the M1 Service bullet the maximum charge is 46.0 grains weight Pyro D. G., and it is better to use 45.0 grains weight for long-range work. This is a popular load for the 600-yard military qualification course. Behind the 170-grain .30-30 caliber soft-point bullet a charge of 40.0 to 43.0 grains weight Pyro D. G. should be used. Behind the 169-grain Squibb gas-check bullet you can use from 30.0 to 36.0 grains weight Pyro D. G. You can also use from 37.5 to 40 grains weight I. M. R. Powder No. 17 1/2.

### TEMPERING BULLET LEAD

**I** WOULD like a little information in regard to home-made bullets for the .38 Special. We have been casting our own bullets and, to keep expenses down, we have a chance to purchase lead from the local junk yards at a pretty good saving. They tell me the lead is bought from the telephone company. What I want to know is if we make bullets out of it will we have to add tin or antimony or both, or can it be used as is? We have been using one part tin to twenty parts lead. What mixture should the above lead be to give best results?—J. R.

**Answer:** I do not have definite data on your telephone lead, but the chances are that it is fairly soft and that you will have to add a small amount of tin or antimony to temper it. I would suggest that you try your bullets with your thumb nail as they come from the mold if they are made hard, or when cool, if they are 1 to 20 temper, and to make your new mixture with the telephone lead just as hard by this test. You can readily tell whether it yields to the thumb nail the same as your present mixture, which I understand is satisfactory for your purpose. If it is too hard, use lead; if it is too soft add a bit more tin or antimony. Even in a given mixture, you will find the temper varies as you cast when you make a large quantity of bullets, and many reloaders continually add a lump of tin or antimony as they progress with the casting in order to keep all the bullets of the same temper.

### CLEANING .30-CALIBER BORES

**W**ILL you please give me information on the care of a .30-'06-caliber National Match Springfield. I have a Parker-Hale cleaning rod and plenty of Hoppe's No. 9. Also a jag-end and a bronze-brush. Is it a good idea to use Gun Slick, and, if so, how should I put it on? Will it preserve the barrel? If it does, how should I work it in?—H. S.

**Answer:** In cleaning your National Match Springfield follow the directions in the memorandum No. 15. When using non-corrosive primers, you will merely need to protect against atmospheric contact by oiling the bore with any good preservative like Gun Grease or Cosmoline. In thin oils which do not have to be wiped out before shooting, the best I have tried is Anti-Rust Oil. When metallic fouling is present, you can clean it with a steel rod and a steel brush or a cloth patch, using Winchester Crystal Cleaner, which is an ammonia swabbing solution. This will attack brass and should not be used with a brass rod or brass brush.

Gun Slick is not necessary, but its continued use may serve to cut down any tendency to lead or metal foul in the bore. After cleaning use a very little of it on your cleaning patch and draw it back and forth with vigorous complete strokes in your barrel and then follow with one clean patch to remove the surplus. After cleaning it will also act somewhat as a preservative, especially after continued use. The metallic fouling must always be removed first and the bore thoroughly cleaned. Gun Slick merely tends to fill up the minute uneven spaces or tool marks with a graphite coating.

### BALLISTIC DATA ON LUGER AND MAUSER PISTOLS

**P**LEASE send me all details regarding 7.63-mm Mauser Automatic pistol and 7.65-mm Luger Automatic pistol as to accuracy and ballistics. Also trajectory of same. Can I buy ammunition for these pistols through the N. R. A.? If so, quote cost of ammunition.—F. H. G.

**Answer:** There is no ammunition for sale through the N. R. A., but N. R. A. members can purchase government ammunition and components from the Director of Civilian Marksmanship, Room 2840 Navy Building,

Washington, D. C., by direct application to that office. Send your membership card, properly signed, but no remittance, as the D. C. M. will give exact quotations and ordering instructions. See the D. C. M. price list. Merely state type and quantity of supplies desired.

The trouble with the .30 caliber German pistol is that the bullets are too small and light, but they do have a very high velocity and a relatively flat trajectory. The .30 caliber Mauser uses an 84 or 85-grain bullet at 1323 f.-s. and develops 329 ft.-lbs. muzzle energy in a 5½-inch barrel. The .30 Luger uses a 93-grain bullet and develops 1180 f.-s. and 290 ft.-lbs. in a 4½-inch barrel. The penetration of the former is 11 pine boards and of the latter 10 pine boards. These small bullets lose 12% or more of their velocity over the first 100 yards, while the heavier 125-grain 9-mm. Luger bullet loses only 10%. The cross-sectional area of these small bullets is only .075 square inches, against .094 square inches for the 9-mm. Luger. The latter has a relative shock power rating of 30 against 25 for the .30 Mauser and 22 for the .30 Luger. This shock power is merely the muzzle energy multiplied by the cross-section area. The recoil energy developed by the .30 Luger is 2.2 ft.-lbs. and that of the .30 Mauser 1.7 ft.-lbs. The .30 Luger bullet drops 3½ inches at 50 yards and 14.4 inches at 100 yards. The .30 Mauser bullet drops 2¾ inches at 50 yards and 12 inches at 100 yards. The Luger factory quotes the average spread, of group, of the Luger pistol at 50 yards to be 4 x 2¾ inches, and at 100 yards 10 x 7 inches. I have no similar figures from the Mauser factory, but I would expect the claimed groups to be about the same for the .30 Mauser pistol.

### .30-06 AND .300 SAVAGE.

I HAVE been considering the purchase of a .30-06 Springfield for a deer and elk gun. A friend of mine suggested that I get a .300 Savage, as he said I would have just as powerful and far shooting a gun, besides being lighter, easier to handle, etc. Please give me your opinion on this matter, and any comparative dope that you could give me on these two guns would be greatly appreciated.

Our shooting here is mostly from 100 to 500 and 600 yards.—G.L.W.

**Answer:** Disregarding the greater power of the .30-06, the average accuracy of the two calibers is 1 minute of angle better for the .30-06 as compared with the .300 Savage, which is an important consideration for long-range shooting. On big game up to 300 yards the .300 Savage is plenty accurate and perhaps also on small game up to 150 yards. In other words, I would expect the average group to be 2" smaller at 200 yards and 6" smaller at 500 yards with the .30-06 in a modern Sporter built on the Springfield, Remington or Winchester action. If you want a very handy .30-06 of light proportions and giving the same accuracy as the .300 Savage, but with greater power, the Model 40 and Model 45 Savage Super Sporter bolt action would be the answer.

As for power comparisons the .300 Savage uses the old service load ballistics, which are 2700 f.-s. for the 150-grain bullet. The modern .30-06 ballistics, however, go considerably above this, as the 145-grain and 150-grain bullets are driven at 3000 f.-s. muzzle velocity in this caliber. I would refer you to the enclosed ballistic table for a game-shooting comparison.

### SPORTSMEN PRAISE THIS AMAZING NEW SLING SWIVEL

The GUN GADGET quick detachable sling swivel fits any stock... doesn't mar lines... allows one sling to be used on any number of rifles, etc. Can't come loose. Instantly attached or detached by pressing tiny button and giving slight turn. Rotary motion allows any sling use. Tested and endorsed by experts under all conditions. GUN GADGET swivel made with 1 and 1¼ inch loops. Price \$2.00 pair (extra floor plates 75c pair). Order direct until your dealer is supplied. MONEY BACK GUARANTEE.

THOS. B. FRITCHARD  
1214 Venice Blvd., Los Angeles, Calif.

### AMMUNITION

#### MADE TO YOUR SPECIFICATION

Any caliber, any load. Special: Hollow Point Magnum loads for .38 and .44 Special. 3000-foot Hornet loads. Circular on request.

SMITH'S CUSTOM LOADS  
Middlebury, Vt.

### .375-MAGNUM AND BULLETS

**SPEAKING** of the .375-caliber Mauser gun. What do the words, "Holland & Holland" mean? Don't all types in this caliber take the same ammunition? Which bullet has the greatest stopping power—the 235-grain expanding or the 300-grain soft nose, from the same gun?

In any rifle, which is the most effective bullet—an open point expanding type, or a soft nose? Is the 180-grain open point more deadly than the 180-grain soft nose?—A.J.P.

**Answer:** On the basis of muzzle energy the heavier bullet in the .375 Magnum has the greatest power. In the .375 Magnum the standard weights of bullets are 235 grain and 270 grain. The former develops 2767 f.-s. and 3995 ft.-lbs., while the latter develops 2600 f.-s. and 4053 ft.-lbs.

In the .30-06 the 180-grain Open Point bullet developed 2700 f.-s., and 2910 ft.-lbs. The 180-grain Soft Point of the same make develops 2645 f.-s. and 2800 ft.-lbs. The purpose of the Soft-Point load is to avoid excessive "blow-up," but adequate penetration and mushroom to cause plenty of bleeding. The Open Point would be more effective and destructive inside the animal, and it would perhaps also destroy more meat. Some hunters, however, prefer to cause a bleeding wound and less meat destruction, and prefer the Soft-Point bullet. It is adapted for lower velocities than the Open Point type of construction. In base construction, or that part of the bullet which is designed to hold together for adequate penetration, the two types of bullets are identical, the difference being in the nose construction for the two different purposes.

Much the same would be true for the .375 Magnum as it would depend upon the hunter's purpose and his game. The heavier bullet would be better adapted for heavy game, requiring great shocking power and penetration combined. The lighter bullet would be better for lighter animals in plains shooting at long range, because it would have a flatter trajectory and perhaps greater "blow-up" effect at its higher velocity, and because of the design or construction of the bullet for that purpose.

The American load for the .375 Magnum is the Holland & Holland Magnum by the Western Cartridge Company loaded with 300-grain bullet at 2450 f.-s. and 400 ft.-lbs. muzzle energy. Holland & Holland is the name of a British gun-making firm, probably best known for their heavy, large-bore, double rifles.

### USE 3-IN-ONE OIL FOR Complete GUN PROTECTION

You guarantee easy action, far easier cleaning, and protection from rust when you use 3-in-One Oil on guns. Protects three ways because it is three oils in one. In handy cans and bottles.



### FREE

Now! Get complete details and sensational prices. Attractive catalog FREE. Write today.

### Sensational new SHOOTING COAT at Amazing Low Price

**BIGGEST** rifle shooting coat value ever offered. Prices so low you won't believe it. Highly recommended by P. C. Ness, Phil Sharpe and other authorities.

### 10-X Shooting Coat

If your dealer can't supply you, write direct to us for literature. Shooting gloves, kits, gun cases, portfolios for targets.

Write today!

### 10-X PRODUCTS

Des Moines, Iowa

### PYRO D. G. IN THE .25-REMINGTON

I AM writing to see if you will tell me how much Pyro D. G. to use in my Remington .25, Express Model, for bullets like the .25 Remington, 87-gr. O. P., and the best powder to use after I have shot up what Pyro I have. I can get No. 17½ and No. 80 powder here and others by ordering.

I have the B. & M. Hand Book and also the Ideal, but they give no dope on Pyro D. G.—C.S.

**Answer:** In your Remington Express Model rifle, .25 Remington rimless caliber, you could use up to 30.0 grains weight Pyro D. G. powder behind the 87-grain Open Point bullet. I would suggest that you start with 26 grains weight and work up towards the heavier charge, gradually and carefully, and either quit increasing the charge when you get the desired accuracy, or drop back 1.0 grain weight as soon as you note any signs of high pressure. You can also do exactly the same with Hercules 300 powder, except that you will probably get lower pressures at about the same velocity with Hercules 300. With Hercules 300 powder I would suggest that you start with 27.0 grains weight, which is approximately the correct charge for this rifle and bullet. With I. M. R. Powder No. 17½ and this bullet you can use from 30.0 to 34.0 grains weight, and I think you will get the best results with 1 or 2 grains weight under the maximum charge, or about 32.0 grains weight. With No. 80 powder the maximum load is 15.5 grains weight, which would limit your velocity to a little over 2,000 f.-s. with this powder.

# A New Service—

for owners of *fine guns*



To save time send your gun directly to us for examination and estimates.

Owners of fine guns, such as the higher grade American arms and the famous British and Continental makes, are often in a quandary to find where they can, with complete assurance, send these expensive guns for repairs. Unfortunately there are relatively few fine gunsmiths in the United States who can be entrusted with this caliber of work.

MR. JAMES V. HOWE is one of the few acknowledged master craftsmen in this country. At one time in charge of the Small Arms Experimental Division at the United States Frankford Arsenal, author of "The Modern Gunsmith," (Funk & Wagnalls, N. Y.) the standard work on the art of gunsmithing in this country and an international textbook; and for many years an authorized service man in America for Westley Richards of Birmingham, England, Mr. Howe is prominent in this field of fine gun repairing.

We are glad to announce that "Jim" Howe is now associated with us and will be in complete charge of our new fine gun repair shop. No work will be undertaken until a preliminary cost and time estimate has been furnished by us and approved by the customer. The quality of all work will be unqualifiedly guaranteed. No jobs will be taken beyond our capacity to turn them out within a reasonable time and all promised delivery dates will be faithfully complied with.

Right now is none too soon to have your fine guns tuned up or repaired for the fall hunting season. Remember that **good** work requires time.

**National Target & Supply Co.** 1249 25th St., N. W.  
Washington, D. C.

## A New N. R. A. Service

More good news—another service—for N. R. A. members.

By special arrangements with a reputable insurance agent, himself a well-known member of the shooting fraternity, N. R. A. members and clubs may now purchase at nominal cost All Risk Fire and Theft Insurance on their shooting equipment.

The agent through whom this new policy may be obtained is Mr. C. R. Ripley of Dennison, Ohio. The Company writing the policy is the Fireman's Fund Insurance Company with headquarters in Chicago. The N. R. A. has examined the policy carefully and recommends it to shooters. The minimum policy is for \$500.00 and costs but \$5.00 a year. (Larger policies at proportionate rates). For further information write to C. R. Ripley, Dennison, Ohio.



*The availability of this new All Risk Shooting Equipment Policy is just another reason why the N. R. A. is recognized as the American Shooters' SERVICE Organization. Join the N. R. A.—Support the Organization that is making life more enjoyable for shooters. Use the application below to sign up a new member.*



NATIONAL RIFLE ASSOCIATION,  
Barr Building,  
Washington, D. C.

6-35

I believe in the aims and purposes of the N. R. A. and desire to support the good work as well as to avail myself of its services to members.

I certify that I am a citizen of the United States over 18 years of age.

Attached is remittance of \$3.00 for annual active membership.

Please send me a membership card, one of the sterling "annual member" lapel buttons, one of the latest price lists and enter my subscription to begin with the next issue.

☐ Please check here if you have previously received literature from the N. R. A.

MY NAME \_\_\_\_\_ STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ AGE \_\_\_\_\_

*I am glad to recommend the above applicant as a sportsman and citizen of good character.*

NAME \_\_\_\_\_ TITLE \_\_\_\_\_ OR MEMBER ☐ ANNUAL ☐ LIFE

ADDRESS \_\_\_\_\_





The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results.

Advertisements for **The Members Exchange** are accepted from members only, for their individual and personal transactions exclusively, at 7¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.00. All dealers' advertisements are grouped under **The Trading Post**, the rate for which is 9¢ per word INCLUDING NAME AND ADDRESS, minimum charge \$1.50. Groups of letters and figures are computed as one word. No box number or blind ads accepted. All advertisements must be accompanied by cash or they will be disregarded. Final closing date is the 10th of the preceding month. Please print all advertisements plainly—we cannot be responsible for errors due to illegible writing.

In describing the condition of guns advertised the following standard phrases must be used: **Perfect** means factory condition. **Excellent** means new condition, implying negligible amount of use. **Very Good** means practically new condition, implying very little use, resulting in no appreciable bore wear and very few and only minor surface scratches or wear. **Good** means moderate use with some finish worn off, and only moderate bore wear with no pits and nothing worse than a little roughness in the bore. **Fair** means reasonably hard service, reasonable wear inside, and nothing worse than a few very minor pits in the bore, implying the gun is practical and sufficiently accurate for hunting purposes. **Poor** means marred appearance and pitted or badly worn bore.

#### THE MEMBERS EXCHANGE

For N. R. A. Members only, for their individual and personal transactions. This section provides a quick, inexpensive means for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its condition (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

#### FOR SALE

**CLOSING OUT OUR GUN BUSINESS.** Chance of a lifetime to pick up a high-grade gun at less than cost. Our over-unda trap and field, 3-bbl. guns, double rifles and deluxe magazine rifles must be sold. Send stamp for list. Baker & Kimball, 278 Broadway, Lynn, Mass. tf.

**WINCHESTER 95, 30-06, condition fine, \$18.00.** O. M. Friddell, 227 Davis, Findlay, Ohio. 6-35

**SAVAGE 19-33 N.R.A., speedlock, beavertail stock, excellent condition, \$22.50.** Willis Kenyon Clear Lake, Iowa. 6-35

**12 GAUGE Browning Automatic, 2 barrels, 30-inch full, outside excellent, inside perfect, 28-inch modified, outside excellent, inside very good, matted ribs, Hawkins recoil pad, \$60.00.** E. E. Torbett, 513 So. Arthur, Enid, Okla. 6-35

**JOSEF GOESSL double rifle, 9.3-74 m/m, ejectors, fitted with 4X Zeiss scope, extra pair 20 bore shot barrels, quadruple Kersten fastening, well engraved, five gold birds, excellent, \$500.00.** Dr. Richard Sutton, Kansas City, Mo. 6-35

**HIGH STANDARD .22 Auto pistol, 6 3/4" barrel, new, \$16.40.** Same but fired 100 times, \$15.50. B&L 6X30 individual focusing inocular with straps and heavy leather carrying case, \$25.00. V. G. Baker, Norman, Ark. 6-35

**TEAR GAS pencils, bombs, etc.** Tear gas cartridges to fit revolvers and shotguns. Prices will astound you. Write for list. Help out a member of N. R. A. Will demonstrate free to parties of people or to clubs in Chicago. Henry Selimos, 5160 St. Paul Avenue, Chicago. 6-35

**25-20 SAVAGE Sporter, oil stock, strap, with new Lyman 438, fine cross hairs, scope plus mounts, perfect, \$32.00.** Dr. Carroll T. Bowen, 719 Security Bldg., Miami, Fla. 6-35

**PARKER A No. 1 Special, in perfect used condition.** Marvelous shooter for game or trap, \$200.00. Westley Richards 20 ga. ejector, hand detachable locks, in almost new condition, \$200.00. Colts Officers Model 38 S&W Special, target sights, in new condition, \$20.00. Remington 35 cal. automatic rifle, in good used condition, \$20.00. James Vance, M.D., 315 Mills Bldg., El Paso, Texas. 6-35

**SPRINGFIELD Model T, with 24-inch barrel, condition good, \$45.00 cash.** Geo. Reeves, R. F. D. No. 1, Leavenworth, Wash. 6-35

**MAGNUM 22 caliber, any other conversions, rifles built, all arms repaired, best gunsmiths.** Rifeman twenty years experience offers expert buying service. Will "shop" New York, contact factories, go anywhere commissioned. Correspondence answered immediately. Low prices on Standard Arms, every description. Specializing fine rifles, shotguns, target revolvers. No trades. Harry Wollmar, 13605 Sanford Avenue, Flushing, New York. 6-35

**IDEAL No. 3 TOOL, 30-30, good, \$3.50.** 2 Win. 1894 tools, good: 30-30 & 45-70, \$3.00 each. 38 S&W Win. mould, fine, \$1.75. Wheelens "American Rifleman," fine, \$3.75. American Watch-tool, precision, bench lathe, 7 1/2" swing, 30" bed, good, \$50. 12" Columbia, Vernier calipers, new, \$5.00. Sporter blanks, imported English Walnut, selected, \$3.50 each. Quantity March & April 1933 issues, American Rifleman, containing fine article on checking by Lenz, both copies 35¢. No trades. C. R. Jeffries, 137 Nevins St., Lancaster, Pa. 6-35

**POPE DESIGN Cleaning Rod 40" length, special drill rod, spring tempered tip prevents kinks, brass case with threaded caps protects rod from grit and bending.** Make this combination part of your small bore equipment. Send money order for rod and case, \$1.75; rod alone, \$1.25. George Bergman, Sam Tekulsky, Blair Tool Corporation, College Point, N. Y. 6-35

**REMINGTONS: 30S, 30-06, 2 3/4X Hensoldt-Dialyt, G&H mounts, \$95.00; Mod. 31 Polychoke 12x26, \$50.00; Mod. 25A, 25-20, \$23.00; all excellent. Mod. 31, 20x26, imp. cyl., factory grease, \$36.00; 11A autoloading, old models, good, 12x28 full, 12x26 mod., \$22.00 each; Mod. 12C, bore ruined, \$9.00. WINCHESTERS: Winchester-Pope .22 Lr., set triggers, \$50.00; .351 autoloading, \$35.00; Mod. 42, 410x28, full, \$26.00; Mod. 61 22 Lr., \$20.00; all excellent. ITHACAS: 10x28 SE, excellent, \$50.00; 12x30, fair, \$13.00. Colt Official Police, excellent, 38x6, \$20.00. Savage 23D Hornet, Ranger scope, Pacific rear, checkered, excellent, \$33. Lefever N. S., 20x26, excellent, single trigger, ejectors, \$32.00. Fecker 8X34, excellent, \$40.00. 1914 Luger 9 m/m, 4 in., excellent, \$20.00. Excellent B.S.A. standard .22 air rifle, \$17.00. Warner Swasey scope and case, \$5.00. Sharps carbine, \$5.00. WANT—Sedgley or 54 Win. Hornet; Ideal tools or Pacific dies for .45 auto and .45 Colt; Schmitt No. 12 tool; 8X Targetspot; or what have you? R. Haelig, Bound Brook, N. J. 6-35**

**COLT OFFICERS 22, perfect, \$32.00.** Zeiss Icarette camera, \$22.00. W. Staudte, 5020 N. Major Ave., Chicago, Ill. 6-35

**FOR SALE: New Zeiss Dekarem 10X, \$126.00.** New Zeiss Turolem 4X, \$60.00. Several new Leica objectives. Prof. Frank Urban, Washington University, St. Louis, Mo. 6-35

**New 25 Roberts-Winchester-Enfield, beautiful custom rifle, 22" bbl., ramp, 100-R, test fired only, perfect, \$75.00.** New stock, 54 Winchester, swivels, buttplate, \$7.50. Stamp for list and descriptions. G. W. Dixon, Box 68, Rydal, Pa. 6-35

**BRAND NEW K-22 Smith & Wesson Target revolver, price \$28.00.** Maurice Le Febvre, Mora, Minn. 6-35

**REMINGTON over-under 28" cylinder, modified, beautiful stock, Bradley ivory sight, absolutely new, \$60.00.** Winchester improved Model 12 skeet gun, 20 gauge, 26" skeet bore, excellent, \$40.00. Both shipped privilege inspection. Frank M. Harper, Jr., Box 1119, Raleigh, N. C. 6-35

**.351 WINCHESTER, better than fair, accurate, \$20.00.** .32-20 Winchester '92, octagon, good, \$14. Smith Ideal ejector, 12 ga., 30-in., almost factory condition, heavy cowhide case used, real bargain, \$47.50. .45 Gov't. Automatic, \$12.00. .22 Hornet Winchester single shot, takedown, heavy Winchester Hornet barrel, peep sight, excellent, extra 32-40 barrel, double set trigger, \$43.00. Winchester '92, special stainless barrel .25-20, King peep, sling swivels, folding rear, oiled stock, bluing off, cost \$65.00, sell \$22.50. Write for complete descriptions. No C.O.D.'s. Russell Elder, Griffin, Ga. 6-35

**K-22 SMITH AND WESSON, perfect, fired two boxes Kleanbore, \$30.00 cash.** D. Simon, Orange, Calif. 6-35

**PERFECT GRIFFIN & HOWE 30-06 rifle on Springfield action, elaborate engraving, Hensoldt 2 3/4X scope on engraved G&H mount, cases. Cost over \$500.00. Sell \$230.00 cash only.** Dr. George Fielding, Glens Falls, N. Y. 6-35

**K-22, EXCELLENT inside, very good outside, \$20.00.** B&L Sportglass, new, \$7.50. \$140.00 Cundy-Bettoney silver clarinet, accessories, \$25.00. W. Gray, 3111 W. 15th, Topeka, Kansas 6-35

**HOLSTERS, USED GOVERNMENT 38 or 45 Revolver, 49¢ postpaid.** Used Gunslings, 39¢ postpaid. Jim Craton's, 221 Harrison St., Davenport, Iowa. 6-35

**COLT MODEL 1855 fluted cylinder Root side hammer 4 1/2" 31 cal., good, \$15.00.** Cooper Colt infirmement 36 cal. 4" DA, new, \$12.00. W. G. C. Kimball, Woburn, Mass. 6-35

**SAVAGE 23D Hornet, speed-lock, excellent, \$19.00.** Winchester 61, scope bases, excellent, \$16.00. Lyman 5A, excellent, \$33.00. Ralph Koken, Superior, Nebr. 6-35

**COLT OFFICIAL Police 6", 38 Special, holster, tools, moulds, 1000 loaded cartridges, perfect, \$45.00.** Gov't. Auto, \$15.00, 380 Colt, \$15.00, 32-20 Win., \$12.00, 32-40 Win. Carbine, \$12.00, 8 m/m Hae-nel Mannlicher, \$20.00. Robert Phelps, Newport, R. I. 6-35

**WINCHESTER 52, early model, 48, 17-A, stainless steel blue worn, barrel perfect, sling, telescope blocks, \$20.00.** Lyman 438 telescope, micrometer mounts, \$17.00. 30-06 shell resizer, \$1.50. Dr. Wm. H. Key, 25 1/2 Dexter Ave., Montgomery, Ala. 6-35

**INTERNATIONAL Match Martini, excellent, \$100.00.** No. 6 1/2 Ballard 22 Lr., gun crank, \$60.00. Whitney-Kennedy 44, original blue, make offer. A. A. Hoffman, 425 Tyler Ave., Clarendon, Va. 6-35

**COMPLETE stock of Brand New Rifles, Shotguns, Pistols, Revolvers.** Write for Special Prices. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

#### UNCENSORED TESTIMONIAL NO. 366

"Would like to put another ad in the coming issue asking the boys to please stop answering my last ad. Have so many replies right now that it'll take me several days to answer them all. These 'Arms Chest' ads certainly are the Nerts!"—E. D. S., Ohio.

When advertisers speak their minds as freely as this, there must be a reason. Try an ad, yourself, in the July issue. Final closing date is June 10th—see full instructions above.

# THE SPOTTING SCOPE OF CHAMPIONS



N. R. A. Model Prism Spotting Scope, with 19.5X Eyepiece, \$55. Metal Tripod, \$10.50.



• Letters by the dozens from outstanding riflemen attest the excellence of the Bausch & Lomb National Rifle Association Prism Spotting Scope, the instrument designed by champions for championship shooting • One remarkable feature of the B & L Scope is its rapid and easy focusing. Coarse focusing is made merely by moving the eyepiece in or out, while a rotation of the eyepiece tube results in critically fine adjustment • In a lower price range is the Bausch & Lomb Draw Tube erecting type Spotting Scope, an instrument that fills the need for a fine scope for small bore shooting • Write for free literature on either B & L Spotting Scope.

## BAUSCH & LOMB OPTICAL CO.

126 LOMB PARK, ROCHESTER, N. Y.

### SPLAT *Attention* GUN CLUBS

If you want more interest, more members and more revenue for your Club, investigate SPLAT, the new game for RIFLE and HAND GUN shooters. A companion game to "Skeet." Officially endorsed by the N. R. A. Being shot in leading tournaments. Big fun with a small investment. Can be shot anywhere. Liberal Discount to Clubs.

WRITE TODAY FOR OUR SPECIAL  
INTRODUCTORY OFFER TO CLUBS



Individual Shooter's Pack: 5 Target Cards, 50 Target Buttons, 50 1 1/4-in., 100 2-in., 50 3-in. Bustle Bulleyses, Score Cards, Instructions, etc. **ONLY \$3.00.** At your dealer's or direct, Postpaid.

Act Now! Special Club Offer Expires June 30!

Write or Wire to

STOWELL TARGETS, INC. Sole Manufacturers LOCKES MILLS, MAINE



### NEW 4-POWER TELESCOPE SIGHT at Less Than Half the Usual Cost



Rear Mounting has delicate click adjustment for windage or elevation. Reg. U. S. Pat. Off. Send order to Chicago, Philadelphia, Boston, Kansas City, Minneapolis, Atlanta, Memphis, Dallas, Seattle, or Los Angeles whichever is nearest you.

Heretofore, \$25.00 was a low price for a sight of this quality. 4-Power Magnification lenses give wide bright field of over 20 ft. diameter at 100 yards. Ideal scope for target shooting, small game and rodents.

State make and Model of rifle so we can furnish correct bases for Mountings. Shpg. wt., 3 lbs. Order by Catalog Number.

6 TA 625 **ONLY \$9.95**  
4-Power Sight complete with fittings.....

SEARS, ROEBUCK and CO.

COLLECTOR'S ATTENTION! Porter C&B Lever Action Repeater. Indian knife, auxiliary rifle barrel fits inside 12 gauge. Best cash offer accepted. O. McCullough, Savings Office, Parliament Bldg., Toronto, Canada. 6-35

THE FAMOUS Weaver 3-30 Scope, \$25.00. Pacific Krag peep sight, \$3.00. 10% discount to members. J. Warshal & Sons, 1014 First Seattle, Wash. 6-35

ZEISS 18-50 Spotting Scope with sole leather case, excellent, best offer; also 16 size 17 Jewel Hamilton watch. J. W. Fehrman, 616 May St., Elgin, Ill. 6-35

CHICAGO PALM Revolver, \$12.00; Colt 41 Derringer, \$8.50. 38 Colt Officers Model Target, 7 1/2", never fired, \$33.00. Bissley 45-7 1/2", fair, serviceable, \$18.00. Colt 380 Automatic, fair, \$7.50. Many others to sell or trade. WANT—K-22. J. C. Harvey, 971 Commonwealth Ave., Boston, Mass. 6-35

CLOSING OUT—Gun collection including Sharps, Ballard, etc. Trade-sell. Free list. Ratliff, Stevenson, Wash. 6-35

SELL—Rights in fast, improved Safety for shotgun. Model perfected, but lack funds to patent. Box 15, The American Rifleman. 6-35

38 COLT SUPER, excellent, \$30.00. 44 S&W Special enclosed ejector rod, 5" barrel, nickel walnut grips, very good, \$30.00. H. M. Read, 212 South Walker St., Oklahoma City, Okla. 6-35

FLINTLOCK Kentucky Rifle, barrel 52 inches long, \$37.50. Tennessee flintlock hunter's rifle, barrel 52 inches long, \$47.50. These are genuine unaltered old timers in good shooting condition with hunter's old time equipment. Tennessee percussion bear hunter's rifle with old hunting equipment, \$12.00. Stamp for complete descriptions. G. C. Westfall, Harri-man, Tenn. 6-35

LEFT HAND bolt action Winchester 54 Hornet; Zeiss scope; G&H mount; special stock; etc. Cost \$280.00, sell for \$225.00. Take part trade. Robert W. Knight, Seneca Falls, N. Y. 6-35

1928-1934, inclusive, COMPLETE FILE American Rifleman, \$14.00. Express collect. J. C. Bustard, Box 307, Danville, Va. 6-35

WINCHESTER M12, 20#, 28" full choke, excellent. Eureka loading set, wad-cutter tool, 100 Win. No. 4 primers, \$28.00. Lyman 438 plain mts., \$12.00. Dr. C. G. D'Oench, 709 University Club Bldg., St. Louis, Mo. 6-35

COLT'S Officers Model Target, 38 Special, excellent, except finish very good, \$23.00. J. Duffy, 1814 G St., N.W., Washington, D. C. 6-35

FOR SALE: 7 m/m Waffenfabrik Mauser sporter barrel only, Stoegers No. 600, very good. 7 m/m tools: Ideal mould 285346 dble. adj. seating chamber, muzzle resizer, die and punch for lubricator and sizer. B&M muzzle resizer and two expanding plugs. Quantity shells, bullets and gas checks. \$25.00. Hugh Dolan, Pottsville, Pa. 6-35

ASSORTED ARMS, modern and collection pieces. Handguns, single shot and repeating rifles; Kentucky; early American two and three barreled arms. Rare automatics. Gun books; ammunition; spotting scope. Scores of items. Stamp, please. Calvin Goddard, 3533 Quebec St., N.W., Washington, D. C. 6-35

WINCHESTER 92, 25-20, good, \$15.00. Winchester 53, 25-20, good, peep, \$17.50. Colt D.A. 41, 4", good, \$15.00. Carl Cory, Little River, Kans. 6-35

FLINTLOCK-Kentucky-engraved powder horns, for cash only. Stamp, please. H. R. Lunn, Ithaca, N. Y. 6-35

WINCHESTER 52 with special heavy 24" Nieder barrel of nickel steel, 1 1/4" straight no taper, special stock rich oil finish, beautifully checkered. Lyman 48 rear, no receiver slot, 17-A front, gun fired 2000 shots, guarantee 1" groups at 100 yds. minus wind, new leather sling, Wilder sling pad, a gun built for accuracy and beauty. Cost \$100.00. A bargain. Cash only, \$65.00. Weight 11 1/4 lbs. John Novoth, 1402 E. Stewart Ave., Flint, Mich. 6-35

SELL 30-30 Winchester M1894, barrel poor, otherwise good, \$6.00. Fine 22 long rifle Savage Sporter, 23-A, rear peep sight, slight finish wear, \$11.00. 45-70 Springfield Carbine, fair, \$2.25. 45-70 Springfield rifle, good, \$3.50. D. B. Conley, Swampton, Ky. 6-35

AMERICAN RIFLEMAN, July 1929 to Dec. 1934, \$5.00 takes all. Ethan Nelson, Astell, Kans. 6-35

25-35 SAVAGE Model 99, featherweight, with peep sight and reloading tool, very good, \$35.00. 32-20 Winchester S.S. with 5-power scope, good, \$30.00. Three .40 cal. moulds, \$2.00 each. J. D. Jamieson, 1612 Garfield St., Denver, Colo. 6-35

7.65 LUGER, very good, holster, extra clip, \$25.00 cash. Gordon Lord, Chenoa, Ill. 6-35

SPRINGFIELD, 30-06, No. 1342742, regular issue, star gauge, sling, excellent, \$35.00. Iver Johnson, Hercules, 20 ga., 28-in., very good, \$20.00. T. S. McGirr, Belpre, Ohio. 6-35

52 WINCHESTER, not speedlock, good, \$20.00. Shotgun 410 single, very good, \$4.50. No trades. Lewis Watson, Box 776, Pocatello, Idaho. 6-35

REMINGTON 12 ga. Model 31 Trap grade, vent. rib., 30" full, Heiser case, perfect, \$75.00. Remington 30-S with Sedgley 250 bbl., ramp front, 48 rear, select Cir. stock by Sedgley, engraved trap Buffalo horn tip Whelan sling, perfect, \$75.00. Commercial S&W Model '17, .45, Heiser holster, perfect, \$25.00. S&W 38 hammerless 4 1/4" blue, Heiser holster, perfect, \$20.00. Colt Woodsman, Heiser carved holster, perfect, \$25.00. Postal orders only. L. H. Wohlenberg, c/o Iowa State Savings Bank, Clinton, Iowa. 6-35

ENGRAVED Ballard-Schoyen 32-40, set trigger, false muzzle, bullet starter, tools complete with Malcolm 20 power telescope, excellent condition, \$150.00. Ballard-Schoyen No. 4 barrel, 38-55 D.S., fine condition, loading tools, shells, \$50.00. A. L. Wilkinson, Box 49, Clarksburg, W. Va. 6-35

**PACIFIC PEEP SIGHT FOR KRAIG RIFLES**

Easily adjustable for windage or elevation. Made to stand hard usage. In great favor with hunters. Price includes aperture disc. C. O. D.'s filled, 10% Discount to Members.

**\$3.00** Postpaid

J. WARSHAL & SONS  
1014 1st Ave., Seattle, Wash.

BOND MODEL "C" .30-06 loading tool, complete, good, \$6.00. WANT—Springfield Service, barrel immaterial. Lyle Snyder, 130 Booth, Dubuque, Iowa. 6-35

LATE 52, 48J, 17A, perfect, \$40.00. 25X French telescope, \$5.00, excellent. 6 mould electric do-nut oven, sell or trade for firearms. Elwood Gosse, 1629 N. 15th, Sheboygan, Wis. 6-35

NEW RIFLE BARGAINS! Marlin M93, 30-30 carbines, \$21.75. Winchester M55 25-35, \$26.95. Winchester M62, 22 cal. repeater, \$13.95. Winchester M54, 30-06, \$48.95. Savage M45, 30-06, \$35.00. Savage 23AA, 22 cal., \$17.75. Free gun sling with each gun purchase. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

SELL BEST OFFER. 12-45 Felag binocular, good; 30 Luger, fine, 7 barrel, 2 clips, stock, holster, reloading tools, 150 cartridges, bullets, empties. Paul Muehleman, R. No. 1, Clear Lake, Wis. 6-35

EXCELLENT Woodsman, \$20.00. Excellent Hi-Speed Marlin 39, \$15.00. Very good D.W.M. Luger, 9 m/m, 8" barrel, holster, shoulder stock, \$22.50. Good Winchester 30-30 rifle, \$15.00. Excellent Remington 20 gauge pump, Model 17, \$22.50. 1903 Springfield, bad barrel, \$10.00. Oran Delaney, Greenville, Tex. 6-35

SEDGLEY SPRINGFIELD SPORTER, cal. 30-06 or .25 Roberts. Hi-Standard 22 Auto. H&R Sportsman, single or double action. Write for Prices. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

COLT NEW Service 45, 7½", inside excellent, outside good, hand-carved holster, \$16.50. R. Beal, Gardiner, Mont. 6-35

WINCHESTER 54 N.R.A. 30-06 and 22 Hornet, latest model, factory grease in factory box, never fired, \$47.50 each. Arthur Forrer, Griffin, Ga. 6-35

TARGET SHOOTERS ATTENTION! Order now the New Winchester M54 30-06, 22 Hornet with HEAVY BARREL and 48 Lyman, \$79.50. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

ITHACA, No. 4 single, trap 32x1½x2x14½, excellent, \$65.00. No trades. Walton F. Ellis, 79 Cedar St., Fairhaven, Mass. 6-35

SAVAGE SPORTER 25-20, inside excellent, outside very good, \$20.00, or trade for 4½ Woodsman, excellent. Alex Harp, Corbin, Ky. 6-35

A-1 GOV'T leather sling straps, 35¢, new 75¢, oil treated, 98¢. Swivels, 50¢ pr. Krag Bayonets, 75¢. Lebel Bayonets, \$1.00. Bulls Eye Target Pistol, \$2.50. Wollensak 20 power Spotting Scope, \$10.50. All postpaid. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

LYMAN 5-A, excellent, \$26.00. Savage Hornet, good, \$21.00. Both \$45.00. Leroy Seasholtz, Gilbertsville, Pa. 6-35

22 WOODSMAN, 4½, perfect, \$24.00. 30 Springfield Service rifle, good, bore perfect, \$22.50. Smith Ideal 12 ga., good, \$27.50. Arthur Forrer, Griffin, Ga. 6-35

THE NEW LYMAN #22 Telescope Sight for 22 Rifles, \$12.50. "Wee" Weaver Rifle Scope, \$7.70. Mossberg 4X Rifle Scope, \$7.50. New Pecker 4 Power 10" Small Game Scope with ¼ minute click mounts, \$37.80. Pacific Powder Scale with weights, \$7.00. All postpaid. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

52 SPEEDLOCK beavertail, very good, \$26.00. 22 Colt's P.P., excellent, \$20.00. 03 Auto Stainless Lyman, good, 300 shells, \$19.00. 62 Winchester Lyman, very good, \$15.00. "Metami" portable microscope 25-600X, new, \$25.00. Fecker 10X, 1½, new, \$55.00. Will take in trade good 86, 50-110 solid frame, very good 54-270, 63 auto. Englund, Box 107, Red Bank, N. J. 6-35

STEVENS 22 Favorite Rifle, very good, \$5.00. Stevens 22 Target Pistol, fair, \$3.00. Haenel Air Pistol, 300 pellets, good, \$4.00. Benjamin Air Rifle, very good, \$3.00. Fred Maurer, 4128 N. Darien St., Philadelphia, Pa. 6-35

10% DISCOUNT to members on Lyman, Marble, Redfield, Pacific and King Sights, also Lyman, Noske, Fecker and Weaver Rifle Scopes. Orders filled promptly. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

SAVAGE N.R.A. Model 1919, perfect barrel, outside good, \$12.00. 45 Army Automatic, good, \$18.00. 1 each, Colt .32 Automatic, Colt .25 Automatic, .32 Savage Automatic; all accurate and condition fair to good, \$7.00 each. Good Muzzle Loading Rifle, 40 cal., Target sights, \$10.00. Hall Percussion Rifle, dated 1831, good, \$25.00. WANT—22 Police Positive Target. Ford Rundell, Greenville, N. Y. 6-35

**.22 CAL. SISK BULLETS**  
All Sisk bullets now jacketed with Gilding metal. 55-grain bullets have been fired at velocity of approximately 4200 f.s. without trace of fouling.  
**R. B. Sisk, Iowa Park, Texas**

## Will YOU be there?



It'll be a grand reunion for the old-timers, and a glorious thrill for the tyro shooters, when the National Matches reopen at Camp Perry late this summer. If you're planning to attend—and we hope to meet you there, in our own hut on Commercial Row—we suggest that you start practicing *now*. Competition will be tough. Plenty of practice will help you squeeze in those extra points when they're most needed.

Needless to say only **OFFICIAL** targets will be used at Perry for all small-bore and pistol matches. So of course these same targets should be used for all practice and qualification shooting. Send your order immediately for an ample supply of each of the following targets, all of which will be used in the championship matches at Perry.

TARGET NO.	DISTANCE	SMALL BORE RIFLE TARGETS	PER 100 COST	PER 500 WT.	PER 1000 COST	PER 1000 WT.
A-10	50 Yd.	Two Bulls, Heavyweight Target Paper	.85	3.83	11.25	6.38 21.25
A-11	50 Yd.	Two Bulls, Special Tagboard	1.00	4.44	17.75	7.50 34.25
A-14	100 Yd.	6 Inch Bull, For Metallic Sights, Heavyweight Target Paper	1.30	4.44	5.85	17.25 9.75 34.25
A-15	100 Yd.	6 Inch Bull, For Metallic Sights, Special Tagboard	1.50	7.22	6.75	30.25 11.25 60.25
A-17	200 Yd.	Decimal, Heavyweight Target Paper, 40¢ for 10	3.50	10.25	15.75	46.25 26.25 92.25
A-18	200 Yd.	Decimal Centers, Heavyweight Target Paper	.90	2.22	4.05	8.25 6.75 15.25
A-20	50 Meter	International Two Bulls, Special Tagboard	1.50	7.22	6.75	30.25 11.25 60.25
<b>STANDARD AMERICAN PISTOL TARGETS</b>						
B-6	50 Yd.	Slow Fire (8, 9, and 10 Rings black), Heavyweight Target Paper, 40¢ for 10	3.00	10.25	13.50	46.25 22.50 92.25
B-7	50 Yd.	Slow Fire Centers (8, 9, and 10 Rings black), Heavyweight Target Paper	1.00	3.22	4.50	12.25 7.50 23.25
B-8	50 Yd.	Slow Fire (9 and 10 Rings black), Also used for 25 Yd. Rapid and Timed Fire, 40¢ for 10	3.00	10.25	13.50	46.25 22.50 92.25
B-9	50 Yd.	Slow Fire Centers (9 and 10 Rings black), Also used for 25 Yd. Rapid and Timed Fire	1.00	3.22	4.50	12.25 7.50 23.25

All prices f.o.b. Washington, D. C.

(For prices of other **OFFICIAL** Targets, see pages 32 and 33, May Rifleman)

## NATIONAL TARGET & SUPPLY CO.

1249 25th St., N. W.

Washington, D. C.

REMINGTON rifle .30 automatic, very good, \$25. Colt .32 automatic, very good, \$15.00. Elito twin 4 H.P. outboard, used six weeks, very good, trade for Win. Hornet telescope sights. J. Hall Allen, M. D., Moylan, Pa. 6-35

CROFT'S SHOOTING COATS, \$5.95, Glove, \$1.50, leather Gun Case, \$6.50 postpaid, 10-X Shooting Coats, \$4.25, \$4.65, Glove, \$1.00 postpaid. Rustproof Sheepskin Gun Cases, \$3.50, \$3.75. Postpaid. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

WINCHESTER Sedgley S.S. Hornet, 24-in. bbl., perfect, 200 cts., cost \$71.00, sell \$45.00. E. R. Hoadley, 2422 Hay, Easton, Pa. 6-35

SOUTH BEND Bass Action Fly Rod No. 13, 9' Aluminum case, new, \$12.50. H&R 10" light barrel U.S.R.A. pistol, bore perfect, finish v.g., \$15.00; grips, 4, 5, 75¢ each. Three X-Ring traps, original model, fine condition, \$10.00. L. F. Clark, 1457 Northampton St., Holyoke, Mass. 6-35

6 ONLY 20 GAUGE Extension Automatic Shotgun Magazines, \$1.00, 2 only 16 gauge, \$1.00. Gold Pens 12", 79¢, 16", 98¢. All postpaid. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35



## All You 'Scope Users Want This NEW Griffin & Howe Lower Q. D. Mount with NEW Micrometer Windage

SEND at once for free large, clear photograph showing our new improved double-lever, quick-detachable Griffin & Howe telescope sight mount, with full description and price. Shown above on Remington Model 30 S rifle, replacing Lyman No. 48 iron sight—with interchange of 'scope and iron sight in 10 to 15 seconds. We have improved the locking, giving wider, firmer security. We have lowered the 'scope brackets, so your 'scope just clears rifle's receiver. And we have provided a fine, strong, dependable, graduated micrometer windage adjustment, giving minutes of angle, with click setting. Large knurled thumb-screw adjustment, clearly marked, coin slotted and with locking set-screw. Get in on first deliveries right NOW. Write TODAY to Griffin & Howe, Inc., Makers of Fine Rifles, 202-R East 44th Street, New York. FREE folder gives details.



## A Case You'll Carry with Pride

We couldn't improve on the *appearance* so we improved the *inside* of the new Hartmann Two-Gun Pistol Case by making a wider, better-fitting block. Regardless of what two guns you own, the Hartmann with new improved blocks will keep your pistols snug, intact, and free from scratches. You'll like the compactness and the usefulness of the Hartmann. It's a case you'll be proud to carry. Easy to own too, since all you need do is write a check for \$7.50 (f. o. b. factory price) and mail it to the N. R. A. Be sure to tell us the make and model of your two handguns.

## Also a Hartmann Rifle Case

We also sell the quality Hartmann Rifle Cases for both Model 52 Target and Model 52 Sporter. Both rifle cases (also the handgun case pictured here) are made of tough-grained imitation leather, jet-black with water-proof fabrikoid lining, and nickel-plated locks and hinges. No matter which case you choose there is plenty of room for your shooting gadgets. The rifle cases are priced at \$12.00 each f. o. b. Washington. Specify "52 Target Model," or "52 Sporter" when ordering.

## NATIONAL RIFLE ASSOCIATION

816 Barr Building

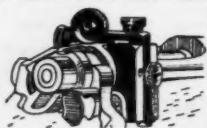
Washington, D. C.



## RE-SIGHTING

**PACIFIC  
GUN SIGHT  
CO.**

The general trend today is toward telescope sights. But with the telescope sights, the shooter must have a perfect combination of iron sights, because there are times when it is not practical to use the telescope. "PACIFIC" offers the correct telescope and iron sight combination, for every rifle and for every requirement.



## RE-MODELING

It affords great pleasure to build up a gun to your exact taste and specifications. This is now possible by re-modeling military rifles into Sporters. "PACIFIC" can do the job for you, or supply you at small cost with all the necessary material so that you or your gunsmith can do the work.

## RE-LOADING

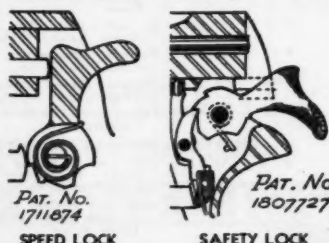
All the experts agree that "PACIFIC" is the tool for turning out super-accurate ammunition at high speed. "PACIFIC" has now doubled this speed without sacrificing accuracy, with a new automatic priming device. "PACIFIC" has also added to its list of calibers the 25 Remington-Roberts, the 22 Niedner-Magnum, and the 22-3000. "PACIFIC" maintains the largest supply of reloading components in the United States and at reasonable prices.

### Send for Latest Catalog

Send 10c, which partially covers the cost of publishing and mailing—the 10c will be refunded on your first order.

**PACIFIC GUN SIGHT CO.**  
355 Hayes St., San Francisco, Calif.

## Something NEW for Auto-Loading Pistols



A buffer or shock absorber, a speed lock, and a lighter trigger, adapted to .45 and .38 Super, Colt Auto-Loading Pistols. This new equipment installed complete for \$7.50 plus express charges.

Write for complete information.

**A. R. BRINKERHOFF** 830 S. Spring St.  
Los Angeles, Cal.

WINCHESTER 52, slow, Lyman 48-17, blocks, barrel fine, outside fair, \$25.00. Krag carbine, good, \$11.00. Winchester 54-06, (NRA) type, very good, \$45.00. Wm. Swift, Lake Placid, N. Y. 6-35

SELECTED M94 Winchester 25-35, same as described November, 1934, issue RIFLEMAN on page 16. Selected for tight chamber and accuracy, perfect inside, very good out, Ideal tools and supplies, pistol grip stock, checkered, \$28.00. Fred Bogue, Box 193, Scottsbluff, Nebraska. 6-35

100 250-3000 fired cases and W. T. & C. W. 60 gr. bullets, \$2.75. Four canisters Hercules Unique Powder, \$3.00. Two Ideal moulds, .321297 and 100 gr., interchangeable blocks, dipper, cast perfect bullets, both \$2.50. Lawrence Poe, Williston, North Dakota. 6-35

WINCHESTER 52, speedlock, 17A, excellent, slight stock alteration, \$30.00. S&W M&P 38 special, 6-inch, fair, \$15.00. 30-06 Springfield, excellent, polished bolt, S.S.A. 788203, \$25.00. 45 A.C.P., old army model, fair, new barrel, \$10.00. E. H. Laycock, 1206 Caracas St., Tampa, Florida. 6-35

AMERICAN RIFLEMAN from May, 1928, to May, 1935, price \$10.00. George F. Kerwin, 1016 Rutger St., Utica, N. Y. 6-35

MODEL 53 Winchester, 25-20 stainless steel barrel, excellent inside, Lyman peep, B&M tool, \$35.00. 25 Remington automatic, perfect, Lyman peep and Cordovan leather case, \$60.00. P. W. Kendall, 662 Glenwood, Cincinnati, Ohio. 6-35

WINCHESTER MODEL 52, new, \$42.75, with heavy barrel, \$49.75. J. Warshal & Sons, 1014 First, Seattle, Washington. 6-35

1933 SAVAGE, sling, blocks, inside perfect, outside v.g., \$23.00. VP Kodak f.7.7, needs bellows, \$3.00 or Heiser belt. M-28 Savage stock, \$2.00. Donald Ackerson, Princeton, Illinois. 6-35

TWO CASES F.A. '20, one F.A. '19, one Rem. '18, cal. 30-06. Best bid. J. D. Glunt, 751 Holly, Gainesville, Florida. 6-35

TWO E. J. CHURCHILL double guns, 12 ga., numbers 3028 and 4080, Imperial grade, 25 inch barrels, prices \$275.00 and \$350.00. Irving A. Rowe, Troy, New York. 6-35

REMINGTON SPORTER, 30-06, receiver sight, military pull, excellent, \$37.00. DeLuxe Savage Sporter, 25-20, beautiful checkered stock, sling eyes, Lyman 42, blocks, excellent, \$20.00. H. S. Beverage, 44 West Elm, Yarmouth, Maine. 6-35

MAUSER 9 M/M auto pistol, wooden holster, very good, \$26.00. Might trade for 38 Super same condition. Winchester '94, octagon, 38-55, very good, \$18.00. Alexieff, Sausalito, California. 6-35

SEDGLEY Mannlicher type sporter, caliber 250-3000, absolutely brand new, unfired, \$80.00. Winchester 52, barrel 22", beautifully tapered by Hubalek, Sedgley ramp sight with hood, newly re-stocked Mannlicher type, fully checkered, aluminum P. G. and buttplate with trap, \$60.00. Robert Hunt, 1441 South Main, Tulsa, Oklahoma. 6-35

THE NEW REMINGTON Express Rifle, Cal. 25 Roberts, \$45.25, with Lyman 48, \$55.25. The New Smith & Wesson Revolver, Cal. .357 Magnum will soon be ready. Mail deposit now. J. Warshal & Sons, 1014 First, Seattle, Washington. 6-35

GREENER, Evans, Sauer, Smith, double 12 ejectors; Parker, Smith, double 20 ejectors; Greener, Lefever, double hammerless 8 bores. Gibbs 6.5 Magnum Mauser, \$50.00. S&W triple lock target. E. K. Ripley, 4401 Alaska St., Seattle, Wash. 6-35

N. M. SPRINGFIELD, star gauge, sling, as issued, #1278354, as new except bore little rough, case, very accurate, \$28.00. Win. 54, 30-06, late, perfect, 48W, 17A, blocks, sling, 200 ammunition, \$45.00. B&L 6x25 binoculars and case, optically perfect, \$20.00. E. Vion spotting scope, 40X, optically perfect, \$15.00. 8 m/m M98 Mauser "Kar" action, smooth, excellent, \$7.50. G. R. Douglas, Belle, W. Va. 6-35

COLT 45 Frontier with shoulder holster, cartridge belt, Ideal tool and bullet mould, 150 cases, complete, \$22.00. H. M. Haywood, Watertown, S. Dak. 6-35

100 BOOKS on the Old West. Hunting, Firearms. Also a few antique pistols, several SA Colts. Stamp, please. E. G. Connelly, 2449 Hartman, Omaha, Neb. 6-35

7 M/M BELDING & MULL reloading tools, complete; Pacific case; bullets, primers, cases and powder. All brand new in factory cartons. 25% discount. Robert Elbel, 809 E. Kingsley, Ann Arbor, Michigan. 6-35

**BROWNING OVER-UNDER \$69.75**  
New Low Price! 12 Ga. Twin single triggers. Raised rib and Auto ejectors. 30" or 32" barrels. Choice of Trap or Field Stock. Postpaid. J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

# Restocking Pamphlet **FREE** to NRA MEMBERS

## INLETED GUN STOCKS

**\$5**

REQUIRE ABOUT  
ONE DAY TO FINISH

Stoeger Peerless Walnut Stock for Enfield, Springfield, Krag. Quality & fit guaranteed.



Rifle, Winchester 52 & 54, Remington 30, 34 & Russian Cal. 7.62. Also lists & prices Gun Stocks & Forends for popular makes of Guns. Walnut Stock and Forend Blanks; Accessories.

**IF IT'S A WALNUT STOCK—STOGER HAS IT!**

Send **50c** in M. O., Coin, Check or Stamps for 304 page **STOGER CATALOG & HANDBOOK**. Contains 12,000 items, 4,000 illustrations with complete description, latest **reduced prices** of all leading American & Imported Arms & Ammunition. Complete gun parts section for Gunsmiths. Gun Sights, Gunsmithing, Complete Ballistics, etc.

**A. F. STOGER, Inc.**

**AMERICA'S GREAT GUN HOUSE**

507 Fifth Avenue at 42nd Street New York, N. Y.

STOGER features

**LOWEST  
RESTOCKING PRICES  
ever offered**

Send today for **FREE** 16 page Pamphlet, **Only One of its Kind in America**—Answers Every Restocking Question

**A. F. STOGER, Inc.**

**America's Great Gun House,  
507 Fifth Ave., New York, N.Y.**

Dear Sir: Please send me a **FREE** copy of your 16 page **GUN STOCK & RESTOCKING PAMPHLET**.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

**WINCHESTER** 12 gauge lever action repeating shotgun, new condition, \$25.00 cash. Edgar Briggs, South Paris, Maine. 6-35

**YOUR PRICES**, your terms. **RIFLEMAN** 1923-'35 to date; **Outdoor Life** October 1924-'31 & 1934-'35 to date; **Outdoor American**, 1927-'29; **Hunting & Fishing** 1928-'29; **National Sportsman** 1934; several years **FOREIGN SERVICE** and of **NATIONAL TRIBUNE**; **American Builder** 1925-'32; **The Carpenter** 1921-1932; **Ithaca Super** 10 Field, ejectors, Lyman's, pad, 10 ga. tools; **S&W** 1891 .38, six inch barrel; **Black draw tube scope**, 33 power; **Prism Binoculars**, six power; **Cruikshank Trap** shooting spectacles, prescription for distance O.D. minus one O.S. minus one; **Stevens** 414, .22 short, Fecker blocks, **Marble Flexible** and hooded front; **Powerful rack-and-pinion** sizer for cal. .30 bullets. **Seven Critchley Improved Reamers**, 15-32 to 15-16, factory case; **Unexpurgated Arabian Nights**, **William P. Nimmo**, Edinburgh, 1865. Other rare or unusual publications. We are all familiar with the strict requirements governing these columns, and the reasons for them. If interested ship stamped envelope for full descriptions. Satisfaction guaranteed—and expected. **Fred Wate**, 517 North 16th Avenue, Yakima, Washington. 6-35

**JOHNSON** outboard, 24 HP, good, only 50 hours service, best offer. **Walter Freudenberg**, Belleville, Ill. 6-35

**IDEAL LUBRICATOR** Sizer, two dies, .311, .360, \$9.00. **Ideal Tool** .30-06, fair, \$2.00. **Winchester** 3A scope, fine hair, non-click mounts, very good, \$18.00. **45 A.C.P.** Commercial, very good, new, 3 clips, \$25.00. **2000 rds. 45 A.C.P.**, \$30.00. **Ideal** 25 Powder Measure, \$3.50. **B&L Photo Model** Scale, weighs 2 oz. by grains, \$3.00. **B. F. Leisy**, Dupont, Washington. 6-35

**COLTS POLICE** Positive Target Revolver, 22 cal., excellent, \$19.00. **Camp Perry**, 10 inch, excellent, \$20.00. **J. Duffy**, 1814 G St., N.W., Washington, D. C. 6-35

**ATTENTION SPORTSMEN!** Liquidation of fine collection. **S&W M&P** 38 Spec. 6" target. **S&W** .22-32. **Mausier** 6.5 Sporter, fine grade with case and cartridges. **Newton** .256 Fancy grade, including cartridges. **L. C. Smith** 12 Crown Grade Single Trap and case. **Ithaca Sousa** Grade 12, double and single trap and cases. **Winchester** 21-12 Standard. **Sedgley** 30-06 Sporter. Also many others. All in new or excellent condition. Stamp for description and price. **R. E. Willard**, 1701 Granville Avenue, Chicago, Illinois. 6-35

**22 OFFICIAL POLICE**, \$20.00. **22 Stoeger's B.A.**, Target Pistol, \$6.00. **22 Savage N.R.A.** '19, with sling, \$16.00. **Krag Sporter**, oil finish, \$15.00. **Parker-Trojan** 12-28", \$30.00. All excellent. **Spanish imitation M&P** .38 Spec., pearl grips, 6", "as is," \$5.50. **Cash only!** **Oftedahl**, 19 Brookfield, Montclair, N. J. 6-35

**HENSOLDT ZIELYT** 24X scope, cross-hairs, internal elevation and windage, with Western mounts for Springfield, fine condition. First money order for \$50.00. **Harold Goetz**, 539 So. Main St., Mansfield, Ohio. 6-35

**SPRINGFIELD RIFLES** **\$25.00**  
Reconditioned Springfield Military Army Rifles, Cal. .30-06, assembled and proof-tested by **R. F. SEDGLEY, INC.** \$2.00 deposit on C.O.D. orders from Gov't Enfield. Limited Quantity!  
**J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.**

## O'HARE MICROMETERS



For the Springfield Rifle The United States Government Service Teams National Guard Teams Civilian Rifle Clubs All use the O'Hare Micrometer—Price \$5.00 Conroy's Rear Sight Protector

Made of heavy gun metal with hinged lid, and can be put on or taken off without altering the sight adjustment or windage adjustment.

It also prevents the black from being rubbed off. Price, \$1.00 each.

**O'Hare Improved Locking Front Sight**

Cover made so as to fit tight; no danger of loose fitting or allowing removing or rubbing off the black from tip of sight. Price \$1.00

**I Save You Money** My No. 10 Catalog showing cuts of more than 400 accessories of interest to riflemen. Send 15c in Stamps today for your copy.

America's Largest Manufacturer and Importer of Rifle Accessories

**P. J. O'HARE**

552 Irvington Avenue Maplewood, N. J.

**300 SAVAGE** 99-G, Lyman tang, barrel perfect, \$6.00 velvet lined trunk case, \$37.50. **250 Savage** 99-G, Lyman #103, fitted with new 26" medium heavy special barrel, solid frame, barrel perfect, \$37.50, cost \$70.00. **Winchester M/53**, 25-20, pistol grip, fancy checking grip and forearm, stainless steel 22" barrel, excellent, finish worn, \$20.00. **Lyman** 438, plain mounts, good, \$12.50. Money order. No trades. Stamp for full description. **Paul Neuland**, Morrisville, Vt. 6-35

**OBsolete CARTRIDGES** Smokeless S.P., 38-72; 40-72; 40-65; 25-36 Marlin, 60¢ box. **Black** 11 MM; 40-70 Win.; 40-65; 32-40 Rem., 50¢ box. **25 Rem. Rimless** M.C., \$3.00 per 100. **Colt** .38 O.M. six inch, very good, \$23.00. **S&W** 38 Spec. Mil. Police, six inch, excellent, \$25.00. **Colt** 32 Automatic Hip Pocket Holster, extra clip, perfect except slight holster wear, \$20.00. **Bisley** Colt 38 Spec., 7 1/2 barrel, stag handles, perfect except slight holster wear, \$35.00. **Winchester** A3 scope and mounts, sole leather case, \$25.00. **Colt** 38-56 slide action, Rifle good, \$10.00. **Chas. Fantz**, Box 201, Scranton, Pa. 6-35

**FINE ITHACA** double, 12-30-F, Damascus, select stock, ivory sights, pad, trunk case, perfect, \$30.00. **Remington** #8-32 Auto, 40 ctgs., case, clips, rod, belt, perfect, \$30.00. **Winchester** #12-16-26, Mod., pad, excellent, oiled checkered, \$23.00. **Stevens** #44 1/2, 32-40, action perfect, otherwise good, ctgs., \$7.00. **Colt** P.O. 38-6", excellent, \$18.50. **Savage** 1917, 32 Auto, C. Wal. grips, perfect, \$12.00. **Vion** range scope 33X, excellent, \$20.00. **Gordon Boser**, Springfield, N. Y. 6-35

announcing . . .

for the public



**VAVER**  
Micrometer Dial  
SIGHTS

for all popular makes of rifles

An outstanding development and advancement in rifle sight design that offers the shooter **absolute** accuracy, positive and rapid adjustment, and means for calibrating the rifle for **any** ammunition. Elevation Dial readings are correlated with the vertical Scale Plate which is graduated in minutes—also in yards—to conform to the loads of ammunitions used.

Adjustments for elevation and windage are made by means of **FRUSTO CONICAL SPIRAL LEADS**—a new mechanical principle in sights—which give positive adjustments of finest accuracy.

**READ . . . in "The Dope Bag"** conducted by Mr. F. C. Ness in the April, 1935 issue of **AMERICAN RIFLEMAN**, a complete descriptive article on the New **VAVER Receiver Sight**.

The windage adjustment is graduated into 20 1/4-minute clicks; the elevation dial into 40 1/4-minute clicks. Each click raises or lowers center of bullet impact 3/4 inch at 100 yards.

Write for **FREE Illustrated Bulletin No. NRA-635**.

**WITTEK MFG. CO., Inc.**

4305 W. 24th Place

Chicago, U. S. A.

NEW!

**WINCHESTER** **\$11.50**  
MODEL 68!  
A handsome well-balanced .22 Cal. **POSTPAID** bolt action repeater with peep sights, walnut stock and semi-beavertail fore-end. \$2.00 deposit on C.O.D. order.  
**J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.**



## A Fitting Binder for a Fine Magazine

Resolve now to save your copies of the good old RIFLEMAN. File them away each month in this fine DeLux binder. Light, strong and durable, the DeLux binder keeps your magazines always fresh and intact. You snap the copies into the binder as easily as fastening a glove. No cutting or punching necessary. No mutilation of your magazines. Holds 12 issues. Popularly priced at \$1.95, postpaid and sold under a "money back" guarantee of satisfaction.



### A Pin You Can't Lose

Life membership pins in 10-K solid gold with safety catch. Purchased long before the price of gold went skyrocketing. Very special, at the same old price—\$2.50 each.



### Save 75 Cents This Month

Due to increased manufacturing costs, we must soon boost the price of Official trigger test weights for both rifle and pistol. The new price will be 75 cents additional on each type weight.

But you can buy Official test weights during June at the present popular prices. Our supply is limited, but in fairness to all we will fill all orders received this month at the old prices, as specified below. **Order Now and Save.**

Rifle Trigger weight—(tests 3 lbs. only)—postpaid ..... \$1.25

Trigger weight for all guns (tests from 2 to 4 pounds)—postpaid ..... \$1.75

### For Your Shooting Coat



Order one of these good-looking brassards to sew on your shooting coat. It identifies you as a member of the NATIONAL RIFLE ASSOCIATION. White letters and red monogram are stitched on blue felt. For "Annual" and "Life" members. Price, each 50c.

### Other Special N. R. A. Items

- Sterling Spoons, with N. R. A. seal on handle, each ..... \$1.00
- N. R. A. Radiator Emblems ("cross bar" and "wire" attachment), specify which, each ..... 1.00
- Sterling "Expert Rifleman" and "Pistol Expert" miniature pins, each ..... .35
- Ammunition Blocks (holds 50 .22 L. r.) each ..... .50
- Genuine Leather Billfolds with N. R. A. seal etched on inside fold, each ..... 2.00
- Genuine Leather Keycase to match billfold, each ..... 1.00
- Dennison black and white Target Pastors in rolls of 500. Perforated and glued. Specify color. Per roll, 20c; per carton of 12 rolls ..... 2.00

## NATIONAL RIFLE ASSOCIATION

Barr Building, Washington, D. C.

## There is a Fecker Telescopic Sight

for every rifle and every need. For small game and varmint shooting, the small game scope in 2½, 3 or 4 power, in lengths from 10" to 13", with plain or ¼ minute click mounts, priced from \$30.00 to \$42.00.

For target shooting, the ¾" objective scope, in 4.5, 6, 8, or 10 power, priced at \$45.00, complete.

For target shooting and spotting, the 1½" and 1½" objective scopes, in 6, 8, 10, 12.5, and 16 power, priced at \$65.00 and \$100.00, complete with mounts, bases and caps.

*A scope for every need, in every price range, all of unsurpassed quality.*

## J. W. FECKER

2016 Perrysville Ave.  
Pittsburgh, Pa.

*A catalogue sent upon request*

## Bargain Army Rifles

Springfield rifle, cal. 30/06, 24" barrel.....\$16.50  
Krag rifle, cal. 30/40, 30" barrel.....\$12.50  
Springfield rifle, cal. 45/70, 32½" barrel.....\$ 4.25  
Illustrated catalog, 1933 issue, 364 pages, with 20-page 1935 supplement; showing guns, pistols, swords, uniforms, etc., mailed for 50 cents. New circular for 3c stamp. Established 1865

FRANCIS BANNERMAN SONS, 501 B'way, N. Y. City

NEW 31 T Remington Trap, 12 ga. Also Fox double, 12 ga., 32". Both full choke. Both chambered for three shells. Both guns sent on trial. E. P. Hotaling, Gloversville, N. Y. 6-35

REMINGTON cartridge board, excellent, \$75.00. Pope Springfield, good, \$40.00. 52 Winchester, a.l., very good, \$30.00. Fecker 4X hunting scope, extra high power eyepiece, click mounts, \$35.00. H&R U.S.R.A. 8", \$18.00. Ideal shotgun loading machine, 10 and 12, \$7.50. Stall, 1019 Meyer-Kiser Bldg., Indianapolis, Ind. 6-35

HENSOLDT "Little Gem" Dialyt 3½X Binocular in leather case, very good, \$22.50. Lefever 12-32 single ventilated rib, auto ejector, trap gun, with Cuts Compensator and 6 pattern control tubes in case, outside excellent, bore pitted, \$30.00. E. D. Everson, 893 W. 5th St., Eugene, Oregon. 6-35

W. C. SCOTT & SON, double, 12 ga., 30, 25 grade, made in London, very good, cost over \$400.00, \$65.00. Highly engraved and light. Geo. A. Simpson, 1450 Locust Ave., Long Beach, Calif. 6-35

.30 CALIBER gas checks, \$1.10 per 1000, postpaid. Money orders please. Kampen, 557 Pearl Ave., Rockford, Illinois. 7-35

REMINGTON MODEL 11 automatic, 12-28 full, perfect, \$35.00. Savage 99-B, 303 caliber, good, cartridges, \$20.00. Winchester 92, 25-20, carbine, good, \$15.00. James Grant, Van Wert, Ohio. 6-35

38-55 SAVAGE 26" octagon, good, \$18.00. Ralph Feld, Edison, Ohio. 6-35

SMITH TRAP grade double, 12 ga., Hunter, one trigger, ejector, 30" full, jostam pad, excellent, \$50.00. Remington M31, 12 ga., 30" full rib, recoil pad, perfect, \$38.00. M. Westowitz, 1926 N. Lincoln St., Chicago, Ill. 6-35

COMPLETE FILE AMERICAN RIFLEMAN June, 1927 to date, \$2.50 per year. Will Waite, Gill, Colorado. 6-35

LYMAN 438, excellent, used six times, bargain, \$12.00. J. M. Duggan, 1301 Rogers Avenue, Brooklyn, N. Y. 6-35

S&W OUTDOORSMAN 6¼, 38-44, factory condition, original box, Pachmayr, only 50 rounds, \$34.00. First M.O. takes it. Kenneth Johnson, 3915 Third Avenue, Sacramento, California. 6-35

H&R U.S.R.A. 10", perfect, never fired, \$17.50. B. Tomlinson, 300 West 12th St., New York City. 6-35

CARTRIDGE SALE—30-06, 30-1903, 45-70, 45 automatic, 25 & 32 Remington autoloading, \$2.00 the 100. D. O. Amstutz, Ransom, Kansas. 6-35

OFFICERS MODEL 22, excellent condition inside and out. \$20.00 and express. Fred Eubank, 756 Live Stock Exchange Bldg., Kansas City, Mo. 6-35

WINCHESTER 90, 22 W.R.F., perfect bore, bluing worn, scope blocks, \$10.00. Springfield 45-70-73, fair, \$3.75 delivered. WANT—Genuine Waite fabrik Mauser 30-06 Sporter, single trigger, good condition. F. C. Culler, 32 N. Arch St., Alliance, Ohio. 6-35

45 COLT AUTOMATIC, excellent, \$23.00. New movie camera and projector, \$20.00. Buffer-grinder, \$15.00. Capt. Pedersen, 1246 Bloomfield, Hoboken, N. J. 6-35

250-3000 SAVAGE 99, Lyman 30¼, good, \$20.00. Fine Krag, remodeled, \$25.00. Street drum, very good, \$12.50. 90 cartridges, 40-70-230, make offer. Clyde Speight, Dunbar, Pa. 6-35

38 W.C.F. BISLEY, 4¾, no finish, fair, twelve dollars. J. N. Embler, Walden, New York. 6-35

ITHACA, 12-28, perfect, \$22.50. Ideal tool and mould 32 S&W, \$2.00. 30-06 No. 10, \$4.50. Accessories 50%. Krag Winchester cases full resized, \$1.25, 100, 1000 Winchester 30-06, assorted, 1½¢. Chas. Smith, Hancock, N. Y. 6-35

WINCHESTER MODEL 12, cyl. bore, 12 gauge, good, \$19.00. Winchester Model 61, good, \$17.50. Winchester 59, very good, \$5.00. Krag Sporter, new stocks, sights, \$25.00. Colt 1917, 45 revolver, good, \$12.50. RIFLEMAN for years, 32, 33, 34, \$4.00. H. Hill, 1616 Packer St., McKeesport, Pa. 6-35

NEW LIST of used rifles, tools, surplus equipment, for 3c. stamp. Charles Kelly, 30 Alaric, West Roxbury, Mass. 6-35

38 SPECIAL Colt single action 5½, excellent, \$24.00. J. N. Embler, Walden, New York. 6-35

32-40 TOOL, 115 cases, \$5.00. 45-70 and mould, \$5.00. Mauser 30-06, inside excellent, outside good. Pacific micrometer, \$25.00. English Pit Bull for? WANT—S1903 Action. E. Rye, Blooming Prairie, Minn. 6-35

FECKER 7X 1¼ scope for Sporter and 52, new, perfect, \$50.00 C.O.D. Cost \$67.00. Edwin Neff, Box 23, Pasadena, Calif. 6-35

FOR SALE: 300 30-06 National Match Cartridges, \$7.00. J. Davis, Box 87, Media, Pa. 6-35

COLT OFFICERS Model, .38 six-inch barrel, fair, \$12.50. Colt .38 Pocket automatic, fairly good, \$12.50. Lewis Raemon, Anniston, Ala. 6-35

SEDLGLEY SPRINGFIELD Sporter, 30-06, perfect, fired less than 50 times, \$50.00. Perfect all leather case for above rifle, \$6.00. W. F. Roper Special grips for K-22, \$1.50. Theodore J. Harmon, Camp #133, Hammersley Fork, Pa. 6-35

NEW 12C REMINGTON, \$16.00. Fine sporters, Krag, Enfield, \$18.00. New Russian sporter, Marlin 27S, 1892 Winchester 32-20, Bisley 32-20, Frontier 45-4¾, 1917 Colt, choice, \$12.00. Colt Army 38, New S&W 32 safety grip, \$10.00. New 45 Gov't auto, \$18.00. John Smith, Williams Ave., Barrington, N. J. 6-35

B&M 30-06 TOOL, puller, seater, \$9.00. Analytical balance, mahogany, \$25.00. Bardou scope, \$10.00. Ammunition 40-85 Ballard; 40-63 Ballard; 44-2-6/10 Creedmore; 7-62 Russian. F. F. Tubbs, 924 Cleo, Lansing, Mich. 6-35

WINCHESTER 61, Lyman trap, scope blocks, perfect, \$25.00. Lyman 438, perfect, \$15.00. Auto-graphed Modern Gunsmith, \$12.00. Harkins, 716 Grove, Oak Park, Ill. 6-35

SAVAGE 38-55, octagon barrel, very good, Lyman tang, recoil pad, \$20.00. Winchester 92, 25-20, good, \$15.00. S&W 1917 Army .45, very good, \$15.00. Pocket Model .38 A.C.P., good, \$16.00. WANT—30-06 Pacific Dies, Service Springfield, R. Boring, 1401 Montana, Santa Monica, Calif. 6-35

"WEE" WEAVER SCOPE.....\$7.70

Model 3-29, 3 Power, complete with mount.

MOOSEBONE SCOPE.....\$7.50

4 Power, complete with mount.

The Popular Weaver 3-30 Scope, \$22.50

The above prices are postpaid.

J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.



WINCHESTER Super grade 54, 30-06, perfect, \$62.00. B&L Prismatic Scope, 19.5X and 36.5X eyepieces, perfect, \$42.00. Louis Tassone, 117 W. Pearl, Ishpeming, Michigan. 6-35

FACSIMILE 'Declaration Independence,' \$1.00. Oiler and Thong Assembly 25¢ cash or stamps, Government price, 59¢. Fred Hofstetter, Tacoma, Wash. 6-35

RIFLEMAN, 1926-1934, inclusive: Whelen's "Wilderness Hunting & Wildcraft," \$22.50. A. C. White, Grove City, Pa. 6-35

TRAP SHOOTERS ATTENTION! We guarantee to save you money on any new gun purchase. Write us first. J. Warshal & Sons, 1014 First, Seattle, Wash. 6-35

WINCHESTER 54 Hornet, very good condition, superb accuracy. Whelen sling, demountable swivels, equipped with Zeiss Zielacht 8X telescope over open sights, Sedgley heavy duty overhanging mount, detachable without disturbing adjustments, iron sights constantly available, pointed post reticule with fine cross hair, elevation adjustment by graduated dial, windage in mount, desirable outfit for target shooting or hunting at night or in pronounced twilight. Cost new, \$175.00. First money order \$115.00 brings rifle express paid. W. A. Flynn, 2526 17th Street, N.W., Washington, D. C. 6-35

45 A.C.P. AMMUNITION, \$2.00 per hundred. WANT—Lyman scope, old Colts. W. C. Linn, 821 Venneman Ave., Kirkwood, Mo. 6-35

K-22, VERY GOOD, Heiser carved holster, \$25.00. Mauser pistol, very good, 7.63, wood stock and leather holster, \$25.00. Christian T. Stoier, Jr., 4943 Belle Plaine Ave., Chicago. 6-35

NEW 54 WINCHESTER 270, Lyman 48, \$40.00. New 34X8 Fecker scope, complete, \$33.50. R. N. Longworth, Somerset, Ky. 6-35

WINCHESTER S.S., 25 Krag, No. 3 barrel, pistol grip stock, loading tool, 75 empties, fair condition, \$17.00. Fecker No. 2 Spotting Scope, good condition, \$33.00. Buckeye tube sight, Lyman 438 mounts, very good condition, \$8.00. Harry Frohm, 248 Lincoln St., Wilkes-Barre, Pa. 6-35

COLT SHOOTING MASTER 38 cal., new, \$40.00. 25X Wollensak Spotting Scope, \$10.00. perfect. Howard F. Hawk Gun Co., Reading, Pa. 6-35

#### SELL OR TRADE

GREENER 12 gauge double 30-inch, Sir Joseph Whitworth barrels, \$150.00. WANT—20 gauge double. Describe fully. P. C. Thede, 902 Mills Building, El Paso, Texas. 6-35

HI-SPEED Woodsman, 6", very good, with holster, \$20.00. WANT—Hornet rifle. C. O. Cartwright, 739 Ohio, Lawrence, Kansas. 6-35

COLT 45 S.A., 5 1/4", good; Colt 38 Special, 4", nicked, pearl grips, good; 25 caliber auto, gold plated pearl grips, very good (Spanish). WANT—20 or 12 Remington auto shotgun, Binoculars, 22 Colt or S&W Target, Skeet gun. O. A. Franklin, 1540 Portola Drive, San Francisco, Calif. 6-35

25 NIEDNER Mauser Rifle, very good, complete with reloading tools, \$50.00 or Colt Ace or New Service Target 45 A.C.P. and cash. Write Lou J. Eppinger, 131 Cadillac Square, Detroit, Michigan. 6-35

FOR SALE OR TRADE: One 2 cycle, Marine motor, single cylinder, 3 1/2 x 3 1/4, new, Inboard, wt. about 100 lbs. "without accessories." Photo 10¢. W. A. Morrel, 4405 Lake Park Ave, Chicago. 6-35

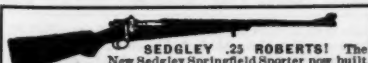
WINCHESTER 97, 12-30, pump, very good. WANT—20 gauge double. A. J. Dadisman, Morgantown, W. Va. 6-35

STRAIGHTLINE, S&W 22 Target, excellent, \$19.00 or what? J. Duffy, 1814 G St., N.W., Washington, D. C. 6-35

HARVARD Classics, 50 volumes, perfect, will consider rifle or revolver in perfect condition. Wilbur Brunthaver, Fremont, Ohio.

ONE COLT O.M. Target .22, new, perfect. WANT—N.M. Springfield in same condition. C. P. Brown, 75 John St., Newport, R. I. 6-35

COLT S.A. 45-5 1/4", excellent, very accurate, fired 75 times new Heiser, 50 loads, \$25.00. Win. 12-20-2 3/4" imp., excellent in v.g. out, \$20.00. WANT—Woodsman, "52," 30-06, 20 double. Jewett, 32 Thompson, Hamden, Conn. 6-35

  
SEDGLEY 25 ROBERTS! The New Sedgley Springfield Sporter now built for the Remington .25 Roberts cartridge. Trade ins accepted. Available in .30-06, .22 Hornet, etc. J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

**The Greatest Knife a Sportsman Ever Carried**



Keen as a razor—shaped and tempered for outdoor service—modeled to fit the hand with a sure, easy grip. Just the knife you need for cutting your way through underbrush, sharpening tent stakes, dressing game, slicing bacon, etc. Marble Woodcraft No. 49 Leather Handle, 4 1/4" in. blade, with Leather Sheath \$2.00. This knife is just one item in the famous line of—

Also with Stag Handle No. 50—\$3.00

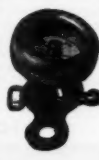
### MARBLE'S OUTING EQUIPMENT

"For Every Hour in the Open"



#### FREE!

You will want our free 32-page booklet on Marble's Outing Equipment, Hunting Knives, Axes, Sights, Cleaning Implements, Compasses, etc. Dossens of useful items for every sportsman. Write today!



#### Marble's Waterproof Match Box

Has ring for attaching to chain or belt. Keeps matches always dry and ready for instant use. No. 181, price, 60¢.

#### Marble's Coat Compass

Fastens to coat or sleeve. Guaranteed accurate. No. 182, with stationary dial, postpaid, \$1.25. No. 082, with revolving dial, \$1.50.

Marble's Products are sold by most good dealers or mailed postpaid on receipt of price. (A95)

**MARBLE ARMS & MFG. COMPANY**  
502 Delta Ave. Gladstone, Mich., U. S.

### IMPROVED BULLETS

are now available for all high-power rifles ranging in caliber from .25 to 8 m/m and in types and weights to fill all requirements of the sportsmen in hunting any size animal from woodchuck to moose. Their uniform fine accuracy and dependability will increase the effectiveness of any high-power rifle.

Western Tool and Copper Works  
P. O. Box 856 OAKLAND, CAL.

BEAUTIFUL 12 point elk head for the mounting, \$55.00. Two 12 gauge Model 12 Winchesters; one new, one excellent, \$35.00, \$25.00. One 16 gauge model 12, matted rib, excellent, \$25.00. One A. J. Aubry 12 gauge hammerless, excellent, \$15.00. One National Match Springfield barrel as new, \$6.50; one slightly worn, \$5.00. one new Service barrel, \$7.00. Ithaca Trap #5 double, single selective trigger, as new, \$110.00. D. H. Mosher, Salem, Oregon. 6-35

ROSS 280, fine shape, little used, \$60.00 or trade for Zeiss binoculars. Pete W. Brown, Augusta, Mont. 6-35

WINCHESTER Single 30-40, set trigger, restocked, sale or trade. Spaulding, 123 So. Grand, Lansing, Mich. 6-35

COLT 12 ga. double hammerless; Smith 20, ejectors; both very good, \$25.00 each. F. N. Kessey, Couer d'Alene, Idaho. 6-35

SERVICE SPORTER. PG checkered, barrel fair, needs headspacing and 48, \$17.50. Winchester '97, 29" barrel, good inside, fair outside, \$17.50. WANT—D.C.M. Sporter; 30 Remington pump; 4X Hunting Scope with mounts; Pacific tools; 30-06. Cash differences. E. M. Dunlap, P.O. Box 126, Wilmington, Calif. 6-35

SAVAGE 19-33, perfect; S&W 38 M&P, good. WANT—Woodsman; K-22; Win. 52, etc. Earl Price, Lodi, Wis. 6-35

WINCHESTER Carbine, 30-30 cal., good condition, \$16.00. WANT—Colt Woodsman. Edward Bodewin, Medford, Wis. 6-35

WINCHESTER 5A scope, \$22.00. Springfield, double barrel, 410, 3 in. shells, good, \$14.00. Remington 12A, new barrel, rebled, \$13.00. WANT—48; 25-35 Winchester S.S.; 48K. Dr. Algie, Ellendale, Minn. 6-35

## REDFIELD SIGHTS

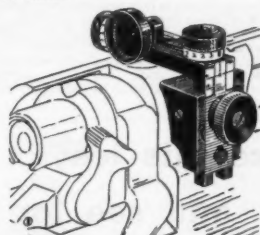
for Every Gun—Every Purpose

If you SHOOT—in the field or on the range, you NEED Redfield Sights. They're built for PRECISION shooting—the choice of CHAMPIONS for over 20 years. NEW CATALOG describes and pictures Micrometers, Receivers, Scopes, Mounts, Ramps, Globes, etc. Many new developments.



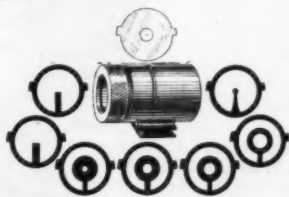
### Scope Mount

Bridge type. Famous for sturdiness and practicability. Sits extremely low. Aligns naturally. Scope can be removed and replaced without changing sighting. Made for Zeiss, Hensoldt, Noaks and other scopes having internal elevation adjustment. Reasonably priced.



### Micrometer for Remodeled Enfield

As pictured—the No. 100 RW Redfield Micrometer for remodeled Enfields. Graduated in quarter minutes. Hardened steel-ball clickers. Positive-locking windage and elevation. ELIMINATION of lost motion in adjustments. Improved indicators. Mounted without cutting stock in most cases. \$8.00 to \$12.00.



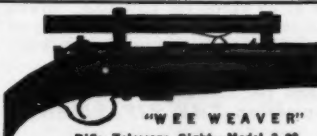
### Globe Sights

Most accurate, practical globe sight ever designed. Longer, larger globe. Better lighting. Non-reversible inserts. Other new and exclusive features. Price, only \$2.50.

### Ask Your Dealer!

Get complete information about these and other Redfield Sights from your local dealer—or write us for FREE literature describing sights for every rifle and for every purpose.

**REDFIELD GUNSIGHT CORP.**  
3315 Gilpin St. Denver, Colo.



"WEE WEAVER"  
Rifle Telescope Sight—Model 3-20  
For .22, .22 Hornet, .25/20, and similar calibers.  
COMPLETE WITH MOUNT \$7.70

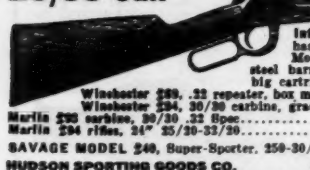
3-30 Scope, unexcelled in quality. Complete with the 3-30 Mount, which is the WORLD'S BEST.  
W. R. WEAVER CO., Dept. I,  
Campbell & Franklin Sts. El Paso, Texas

# WORLD'S BIGGEST BARGAINS!!

Just think—these BRAND NEW WINCHESTER Model 21, Double Barrel Shotguns with Non-Ejector: **\$36.45**  
12-16 and 20 gauge and barrel lengths; 28, 30, 32 and 34 inch. State gauge, length and chokes desired.  
Regular price, \$72.45—WHILE THEY LAST, each.....

A few of the above shotguns with selective ejectors. Regular price \$27.05. SPECIAL, each..... **\$41.45**

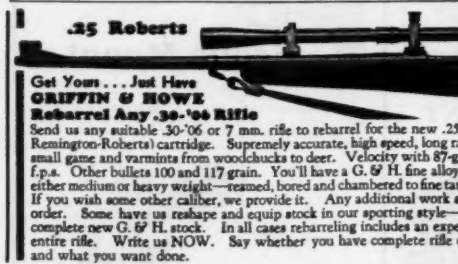
**WOODCHUCK — FOX — COYOTES — DEER** **\$26.95**  
**25/35 Cal.**



Inflation this Fall? Listen to the good news the "House of Hudson" has for you. We offer the very last of these brand new Winchester Model 255 take-down rifles in the popular 25/35 cal. 24" tapered nickel steel barrel. Money Back Guarantee \$26.95 each. Our 1935 catalog, also a big cartridge list, free on request.

Winchester 220, .32 repeater, box mag. \$10.85	Marlin 294 carbines 35/40-44/40 cal. \$17.95
Winchester 234, 30/30 carbine, grade 21 21.85	Savage New Model 90T, 250 or 300 cal. 41.85
Marlin 200 carbine, 30/30, .32 Spec. 23.85	Savage carbine 90H, 250 or 30/30 cal. 38.95
Marlin 294 rifle, 24" 35/30-33/30 17.85	New Mosberg 28 Telescope, 4-power 6.95

**SAVAGE MODEL 240, Super-Sporter, 250-30/06-30/300 cal. 5 shot..... \$28.75**  
**HUDSON SPORTING GOODS CO. \$8.00 Deposit on C.O.D.'s R-52 Warren St., New York City**

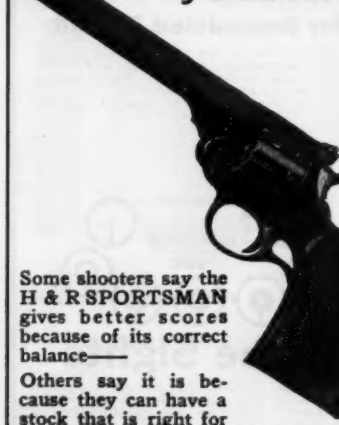


**.25 Roberts**  
Get Yours... Just Have **GRIFFIN & HOWE** Rebarrel Any .30-'06 Rifle  
Send us any suitable .30-'06 or 7 mm. rifle to rebarrel for the new .25 Roberts (.257 Remington-Roberts) cartridge. Supremely accurate, high speed, long range, taking all small game and varmints from woodchucks to deer. Velocity with 87-gr. bullet, 3,300 f.p.s. Other bullets 100 and 117 grain. You'll have a G. & H. fine alloy steel barrel—either medium or heavy weight—reamed, bored and chambered to fine target tolerances. If you wish some other caliber, we provide it. Any additional work subject to your order. Some have us reshape and equip stock in our sporting style—others order a complete new G. & H. stock. In all cases rebarreling includes an expert check-up of entire rifle. Write us NOW. Say whether you have complete rifle or action only, and what you want done.

We specialize in furnishing the best target and hunting telescope sights and mounts. Consult us. Folder Free.

FREE folders give details on Griffin & Howe fine rebuilt rifles  
**Griffin & Howe, Inc.**  
Makers of Fine Rifles  
202-R East 44th St., New York

**Make this test—  
and see for  
yourself!**



Some shooters say the **H & R SPORTSMAN** gives better scores because of its correct balance—  
Others say it is because they can have a stock that is right for their hand—  
Still others think it is because of the superior accuracy of the barrel—  
As a matter of fact, all are right, because the better scores anyone can make with the **SPORTSMAN** are due to having ALL of these things RIGHT!  
Theorize if you wish—but try the **SPORTSMAN** at 50 yards for accuracy, and in both time and rapid fire at 25 yards for handling. Make this test and see just how well you can score with a gun that is built for the job.

Send for folder SA, and please mention **THE RIFLEMAN**.

**Harrington & Richardson  
Arms Co.  
Worcester, Mass.**

**RICE PEEP SIGHT**  
for Krag rifles only. Positive elevation and windage. Anyone can mount. Fine hunting sight. Can't work loose, \$1.00. Springfield Sporter butt plates, cast aluminum, \$3.50. Satisfaction or money refunded.

**LEROY RICE**  
356 7th St., Elyria, Ohio

**COLT WOODSMAN** high speed 6½" barrel, holster, excellent, \$23.00. Will trade as part payment on National Match Springfield, same condition. Francis Bentrup, 1311 Lexington, St. Louis, Mo. 6-35

**KRAG CARBINE**, shot 35 times, otherwise brand new, gold bead front. Pacific rear, 80 shells, \$17.00 or swap for good Win. SS or 94 Carbine, 30-30. Colt .22 Auto Target 6½", not high speed, very fine condition throughout, with Heiser safety strap holster, \$17.00 or swap for good 32-20 Win. 92 carbine. Stoeger Peerless sporter stock for Krag, never used, cost \$12.00, sell as is for \$5.00. E. B. Miller, 2234 N. W. Quimby, Portland, Oregon. 6-35

**TEN CANS DuPont 16; RIFLEMAN** Feb. 1922 to date (Jan. 1928 missing). Best offer. Hudson, 1757 Superior, Toledo, Ohio. 6-35

**REMINGTON 30A, 30-06, Redfield 102 receiver sight, very good, \$32.50. Bisley 38-40, very good for 4½" Woodsman or K-22. James W. Latham, De Beque, Colo. 6-35**

**22 CALIBER DeLuxe Peterson B.S.A., excellent. Cost \$225.00, sell \$125.00. Shooting Master 38, excellent, \$40.00. 10X Targetspot, excellent, \$42.50. WANT—Engraved double set Ballard action and Lyman 5A, excellent. S. J. Lanning, 2015 W. Horne, Sioux City, Iowa. 6-35**

**POLICE Positive Special 32-20, new, excellent. WANT—S-A scope. Dr. Kingery, Frankfort, Ind. 6-35**

**COLTS WOODSMAN, excellent, 6½", gold front sight, highspeed, two magazines, \$25.00, or trade for B&L Draw Tube Spotting Scope, same condition. Clark Stewart, Fremont, Virginia. 6-35**

**ITHACA 4-E single trap, 32 inch, very good, \$60.00. WANT—Ithaca Magnum 10, 16 double. Dr. C. J. Miller, Ord, Nebr. 6-35**

**38-40 BISLEY, 4½ in., \$20.00. WANT—22-32 MAP Target. Stamp please. John B. Anderson, Box 128, Houston, Pa. 6-35**

**WEBLEY & SCOTT, Senior Air Pistol, 177 cal., 1500 pellets, new condition, \$11.50. WANT—Police Positive Target 22; Bankers Special 22, or what? Emil Fahrlander, Ogallala, Nebraska. 6-35**

**BEST OFFER—National Salesman's Training Course, 14 volumes, cost \$150.00. No junk. Stamp. Hagerman, Spiceland, Indiana. 6-35**

**LATE REMINGTON 31-A, 28" modified, perfect. Lefever Nitro Special 20, modified and full, perfect. Savage 110 Aperture Rear Sight, ½ minute micrometer clicks. WANT—Perfect Remington Sportsman; single shot Hornet. Earl Haffner, Portland, Indiana. 6-35**

**COLT S.A. 38 Special, 7½" barrel, perfect, \$26.00. WANT—Very good Sharps-Borchardt, barrel immaterial. Victor Slocum, Kieselville, Pa. 6-35**

**EXCELLENT WALNUT Hill, 48, 17A, sling, 22 short, \$35.00. Excellent Marlin pump 16, \$75.00 grade, \$40.00. Deluxe remodeled Krag, \$40.00. Colt O.M. 38, 7½, \$25.00. Savage Sporter 32-20, \$15.00. Winchester 12 automatic, \$25.00. Excellent Savage 23-AA, \$18.00. 48-Y, excellent, \$9.00. 438, click mounts, \$20.00. WANT—52 Winchester, K-22, OM 22, 20 gauge shotgun. Earl Mather, Waupaca, Wis. 6-35**

**WINCHESTER 21, 12 ga., 26", 45%—55%, excellent except slight dent, take \$45.00 or high grade Hornet. Prefer 54. H. S. Rummell, Columbia, Mo. 6-35**

**WINCHESTER 22 L.R., single shot, set trigger, Stevens 12 diam. scope, excellent condition, \$40.00 cash or trade for Spalding Jones Model cushion neck irons. H. C. Moore, Walton Bldg., Atlanta, Ga. 6-35**

**PREWAR LEFEVER twelve, "E" grade, perfect. WANT—S&W in part. Stamp. Advertiser, 6624 Mokelumne, Oakland, Calif. 6-35**

**LATEST IMPROVED Model Weaver 3-30 Scope for Springfield Sporter, \$20.00. Will trade Remington, Model 8A, 35 caliber, fair, peep, for Lyman 5A with mounts. WANTED—Good Model E Savage 250-3000 for cash. Vincent, 1290 E. Brockton, Redlands, Calif. 6-35**

**NEW WINCHESTER 32 Sporter. B&L Spotting Scope. Targetspot. Fecker 1¼. O.P. 38. Wee Weaver Scope. Earl Mather, Waupaca, Wis. 6-35**

**CYLINDER FOR O.M. chambered for 38 Super Auto, excellent, \$2.50. 650 selected 30-06 primed cases, need resizing, fired once, \$4.00. Lyman 23 tool, 38 special, excellent, \$4.00. Lyman electric melting pot, 12 lb. capacity, \$10.00. Wm. Clark, Montgomery, N. Y. 6-35**

**SPARTAN RADIO, #301, 10 tubes, carved Walnut Highboy Console, remarkable distance and tone, excellent, cost \$250.00, 1931. Any reasonable offer. G. W. Dixon, Box 68, Rydal, Pa. 6-35**

**COLT 25 AUTOMATIC, good. Colt 38 Automatic, very good, not the super model. WANT—Springfield, Enfield, Krag or what have you. Kampen, 557 Pearl Ave., Rockford, Illinois. 6-35**

**TOOLS—25 Remington. \$26, \$10. Description upon inquiry. WANT—210, 30-06. B&M Visible measure. #311168. Paul A. Young, 2487 Paris St., Cincinnati, Ohio. 6-35**

**ONE SHOOTING Master 44 Spec. One Ideal loading set and Pacific balance for same. All used very little and in excellent condition. WANT—N.M. Springfield or good telescope sight. Charles P. Brown, 75 John St., Newport, R. I. 6-35**

**9/M LUGER, 8". Stock holster. 38 Officers Model 6". 38-44 S&W Super Police, 5"; same 44 S&W 5". WANT—22 Officers Model. Woodsman, K-22. Geo. E. Isaman, Blue Hill, Nebr. 6-35**

**WINCHESTER 54 Hornet, as new: M-1 Springfield; 52 Speedlock, both excellent; Single shot Hornet; Winchester Single Shot, long rifle, beautiful stock, Lyman 103, 17A, very accurate, perfect. Springfield Service, very good; Krag "as issued," very good; Winchester 95, 30-06 carbine, good; 38 Officers Model, 6 in., perfect; Woodsman, 6½ in., perfect; Hi-Standard, new; H&R Sportsman, new; 22 Official Police, perfect; Two Malcolm scopes, 4 and 5 power; Lyman 5-A, clicks, Lyman 438. WANT—B&L prismatic; Winchester 54 with poor barrel or action alone; old style 52, any condition; Springfield in any model or condition, .22 or .30 caliber. L. W. Howland, Mt. Washington Sta., Cincinnati, Ohio. 6-35**

**THE FOLLOWING IN FACTORY CONDITION: Colt P.P. Spl., 32-20, 4", \$15.00; Winchester Enfield, \$15.00. The following in perfect condition: Colt O.P. 22-6", \$22.00, holster; Colt N.S. 38-5", King front and rear sights, \$27.00; H&R U.S.A. latest model 22-10", \$18.00; Parker 12, V.H. \$40.00; Ithaca #4, 12-35, \$65.00; Colt S.A. Army 38, \$15.00; 4000 22 L.R. K.B., \$4.50 per M. We carry a complete line of firearms, write us your needs. George F. Herold Co., 7 Center Market Place, N. Y. City. 6-35**

**WINCHESTER SCHUETZEN Hornet; Royal Typewriter; Winchester auto 12; Luger 30; Colt O.M. Target 38; P.P.S. 32-20; 380; P.P.T. 22; H&R U.S.A. WANT—K-22; Ace; Frontier. Wilkinson, 82 Monticello, Buffalo, N. Y. 6-35**

**SHOTGUNS, rifles, pistols. WANT—Perfect Hi-Speed Woodsman, Ace, K-22, Speedlock 52, Scope. Julius C. Nelson, Frost, Minnesota. 6-35**

**52 SPEEDLOCK H.B. 17, excellent, \$40.00. Winchester 30 U.S. Mod. 1903, good, \$12.00. Colt 22 Target Mod. 38 Frame, very good, \$20.00. Ithaca #1, 10 ga. 32", very good. WANT—52 Sporter and H.R. Sportsman S.A. A. P. Lytle, Livingston, Mont. 6-35**

**ALTIMETER**, Paulin Precision, new, ten foot graduations. Cost \$100.00. **WANT**—Rifle, revolver or glasses. Spillane, 3513 S. Figueroa St., Los Angeles, Calif. 6-35

**3 1/4x4 1/4 REVOLVING** back auto Graflex (15" bellows) B&L, F4.5, 7 1/2", \$180.00 value, \$85.00. Goetz Dagor 6 1/2", compound shutter, \$30.00. Krag 30", good, \$8.00, modified, Pacific, excellent, \$15.00. **WANT**—Targetspot D.C.M. Match, Leica, Contax. Curtis Jahnke, 245 Russell, Barrington, Ill. 6-35

**44 COLT** New Service Target 7 1/4", excellent, \$25.00. 12 ga. Rem. Auto 28", full, good, \$22.00. M. Hansen, 4707 N. Hermitage, Chicago, Ill. 6-35

**REMINGTON 30 Express**, 30-06, excellent, \$30.00 or acetylene welding outfit. L. Webster, Currie, Minn. 6-35

**4X GIRARD SCOPE** with Mauser mounts, fine, \$25.00. 45-7 1/2" S.A. Colt, good out, new barrel, \$18.00. Ideal mould blocks #360344, \$2.25. **TRADE** 34 N.R.A. Remington for Savage 19. 50 caliber Remington pistol for firearms. **WANT**—52 Standard barrel. Jack Galloway, Route #2, Carthage, Mo. 6-35

#### TRADE

**TRADE**—Winchester 20 ga. pump modified, excellent condition. **WANT**—S&W 38 Special or 38-44 target model in like condition. Louis Spinar, 3815 W. 31st St., Chicago, Illinois. 6-35

**EXCELLENT**, male, redbone treehound six, for excellent K-22 or Woodsman. Howard Galimore, Spencer, Indiana. 6-35

**WANT**—Viewing or spotting scope. **TRADE** Supershot Sealed Eight on or for scope. James McKercher, Isabella Avenue, North Charleroi, Pa. 6-35

**QRS DEVRY** camera, uses 35 m/m film, for revolvers or? Box 294, Seneca Falls, N. Y. 6-35

**TRADE**—Model 63 Winchester, perfect, and good Lyman 438 mounted, for excellent Ace. Gun alone for excellent Woodsman. Scope alone, \$12.00. Excellent Model 11 Remington auto 12 gauge Standard, shot 20 times, for 30-06, 34, 30-S or Gov't. Sporter same condition. Thomas, Pine St., Anaconda, Montana. 6-35

**TRADE**—Perfect 44 S&W Special 6 1/2", shoulder holster, belt, 150 cartridges, for late 32, 48J. E. O. Wykes, Quanah, Texas. 6-35

**WILL TRADE** fine Super 38, extra clip and shoulder holster. Eastman Pupille camera, perfect shape, cost \$90.00. **WANT**—25-21 shells, muzzle loading rifles or what? Arthur Chafin, Logan, W. Va. 6-35

**WINCHESTER M57**, extras; Winchester M-12-20. Both very good. **WANT**—Scope; Hornet; 38-44. William Badger, Peru, Vermont. 6-35

**TRADE**—Pacific Ballard 32-40, 32 inch heavy shoin barrel, fine condition, for a Lyman 5A, Springfield rifle or automatic shotgun. Carl Wehinger, St. Wayne, Wisconsin. 6-35

**TRADE**—Lyman 10X target spot scope, excellent. **WANT**—4x5 R.B. auto Graflex with speed lens. Write H. F. Looney, Williamson, W. Va. 6-35

**TRADE**—Sharps set trigger moulds; 32-44; 38-44; 38 Special; Hornets. **WANT**—Scope, peep sights or what have you? Homer H. Alka, R. #2, Mt. Carmel, Ill. 6-35

**TRADE**—New Defender, perfect, also 1/2 H.P. motor. **WANT**—K-22; O.M. 22 H.S. or Woodsman, same condition. Woodsman or O.M. hi-speed preferred. R. Shade, 4212 Woburn Ave., Cleveland, Ohio. 6-35

**TRADE**—H.B. 52, new, perfect, for D. H. Parker or high grade Smith. H. Zimmerman, 339 E. Main St., Alliance, Ohio. 6-35

**TRADE**—6-point elk head, for Win. 54, stock and bluing condition immaterial. Sell mahogany gun cabinet. Purchaser to remove from storage. Canton, Ohio. Ed Ahern, 1447 Wayne Ave., Lakewood, Ohio. 6-35

**TRADE**—Christian Becker Laboratory Gold Balance in glass case, sensitive to one-tenth milligram, good. **WANT**—Winchester 52 with scope or S&W 38-44 Target. K. H. Cox, Cuba Lane, Collinsville, Illinois. 6-35

**TRADE**—Hawken rifle, 50 cal., for super-accurate heavy conical ball Percussion rifle complete with starter, moulds, swage, etc. J. M. Aiken, 516 Lawrence St., Benton, Ill. 6-35

**TRADE**—45 Colt New Service, 5 1/2 inch, latest, Ideal tools, resizing die, expander, complete, empties, all new last February, for Shooting Master 44 Spl., square butt, factory new. Clark Martin, Colfax, Wash. 6-35

#### MOSSBERG ANNOUNCES

## TWO NEW RIFLES

Only \$10.

Only \$12.45

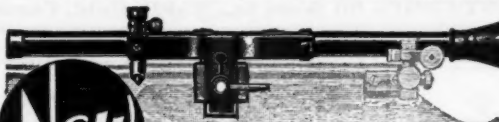
Model 35

Model 46

for combination scope and PEEP SIGHT shooting

Smart locking models of advanced design! New low prices! Complete with hooded ramp front sights, and new "Micro-Click" peep sights. 26-inch barrels, genuine walnut stocks. Receivers tapped for No. 6 Scope Mount. Model 46 takes all length .22's. Model 35 shoots .22 L. R. New target stock. Scope used almost down to line of iron sights and elevated allows peep sight shooting without removing scope. Write for illustrated folder.

Model 46 ..... \$12.45  
Scope ..... 7.50  
Complete ..... 19.95  
Model 35 ..... \$10.00  
Scope ..... 7.50  
Complete ..... 17.50



**MOSSBERG**  
4X Scope \$7.50



4-power telescopic sight; fits most bolt action rifles. Just drill and tap two holes in receiver. Half-minute precision adjustments. Object at 100 yards looks only 25 yards away. Cross-hair reticules standard. Scope, mount, eye-cup complete, \$7.50. **DEALERS**: Just off the press! The big news of the sensational Mossberg line. Write for special dealer booklet today.

O. F. MOSSBERG & SONS, INC.

366 Greene St.

New Haven, Conn.



**PREPARE for the NATIONAL MATCHES!**  
A real micrometer. Made for us by America's foremost precision tool manufacturer. Size 3 1/4". Price, \$5.  
**WESTCHESTER TRADING POST**  
Major William E. Trull, Mount Vernon, N. Y.

**TRADE**—Savage improved Model 20-250-3000, excellent, for 30S Remington 25; Savage 90 RS, 250-3000, some boot. Chas. Woodley, Silver Lake, Kansas. 6-35

**TRADE**—New imported Nicoll gold irons for good used firearms. R. N. Longworth, Somerset, Ky. 6-35

#### WANTED

**WANTED**—Excellent D.C.M. Springfield Sporter above number 1275000; also excellent M-1-22 Springfield. State price. H. F. Lenz, Johnstown, Pa. 6-35

**WANTED**—Small bore set trigger rifle. Dr. Cunningham, 121 West Houston, San Antonio, Texas. 6-35

**WANTED**—Mattern Hand Loading. W. G. Traver, P.O. Box No. 281, Decatur, Illinois. 6-35

**WANTED**—Steam engines: either models or small regular engines. Box 25, THE AMERICAN RIFLEMAN. 6-35

**WANTED**—Cash for a few flint lock and percussion match rifles, good shooting quality. Keenan, 1753 Eastern Ave., Cincinnati, Ohio. 6-35

**WANTED**—4X Noske with internal adjustments. State condition, model and cash price. E. A. Kornkven, Bottineau, N. Dak. 6-35

**WANTED**—Extra barrel, Winchester, model 12, 20, 28, full. Dr. Fridge, Baton Rouge, La. 6-35

**WANTED**—Goss W52 receiver sight, good condition. J. O'Sullivan, 855 So. 14th St., Newark, N. J. 6-35

**WANTED**—For cash. 38 Long rim fire rifle. State price and condition. J. Clyde Akers, Farmington, Missouri. 6-35

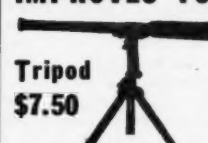
**WANTED**—Winchester 54 Hornet. Noske, Zeiss or Hensoldt and mounts for above. Leroy Seasholtz, Gilbertville, Pa. 6-35

**WANTED**—Borchardt and Ballard actions, plain or engraved, barrel immaterial. Geo. DeVault, Mt. Pleasant, Pa. 6-35

**WANTED**—New Service, perfect condition, 44-40 or 45, 5 1/2". Charles Spaulding, 1445 1/2 East Main, Rochester, N. Y. 6-35

**HAVE YOU SEEN THE WOLLENSAK 20-POWER SCOPE AT \$12.50?**

#### IMPROVES YOUR SCORE



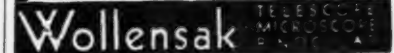
**Tripod \$7.50**

Good shooting calls for a good scope—and here it is at a price that has won quick response from shooters everywhere. The Wollensak—a fine quality scope at an amazingly low price. Made by lens specialists famous over the world clearly spots .22 caliber holes in the black ring at 100 yards. Unusually wide field of view. Lifetime construction. Smooth-acting, quick focusing. Supplied with leather case. Tripod is well balanced, steady in strong wind. Height adjustable from 9 to 14 inches. Panoramic and elevating movements; locks in any position. Of aluminum alloy, weighs only 16 oz., fits practically all scopes, finished in black lacquer and nickel. With leather case, \$7.50.

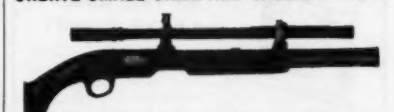
**OTHER TELESCOPES**  
Ten-power, \$7.50; 15-power, \$10.00; 25-power, \$17.50; 35-power, \$22.50; 45-power, \$47.50. At dealers or direct, postpaid (for C. O. D.)

**Money-back guarantee**  
Send for complete catalog of Telescopes, Microscopes, Binoculars, etc. Free. Write today.

Wollensak Optical Co., 765 Hudson Ave., Rochester, N. Y.



#### UNERTL SMALL GAME AND GALLERY SCOPE



A high grade achromatic scope in 3, 4, 6 power; 18 inches long, 1 1/16" objective with caps, \$20.00, less mounts.

1 1/4" OBJECTIVE TARGET SCOPE in 8, 10, 12, 14 power, 24 inches long; highly light-gathering and own precise optics in all scopes, with recoil absorber and caps, \$55.00, less mounts.

PISTOL GRIP ATTACHMENTS for M.52, \$1.25. RECOIL ABSORBERS for scopes, \$3.00. Any scopes repaired or altered. Ask for folder.

**JOHN UNERTL**,  
2702 Sherlock St., N. S., Pittsburgh, Pa.



# LYMAN "TARGETSPOT"

## 8X and 10X TELESCOPE SIGHTS

Both the eight- and ten-power Lyman Targetspot scopes combine optical and mechanical features which prove it to be the outstanding sight when the shooter must demonstrate the highest degree of accuracy in his rifle and ammunition. B. & L. optics unsurpassed in brilliance—1¼ in. diam. objective lens—extra large field which enables holding with less effort. Exclusive features—eye adjustment on REAR, range adjustment on FORWARD end of scope. Rear mount with ¼-min. clicks. Complete with bases, screws, mounts, rubber eye piece, \$60.00 f.o.b. factory.

Send for free folders on all scopes.

**THE LYMAN GUN SIGHT CORP., 90 West St., Middlefield, Conn.**

**LYMAN 5A**—The best 5-power target scope available; also a fine hunting scope. ¼-min. click mount, \$46.50. Free folder.

**LYMAN 43B**—Popular 3-power hunting and target scope. Closely adjustable mount, \$20; or click mount, \$27.50. Free folder.

**LYMAN 22 JUNIOR FIELD** Scope for .22 rifle and Hornet. B. & L. optics, 2½ power, large field for hunting, universal focus. Weight 12 oz. A remarkable value at \$12.50.

## RANDLE MATCH EQUIPMENT

Will help you win matches. Send us your orders and they will be filled same day received.

Randle Shooting Mitt, three sizes.....	\$ 1.50
Randle Ammunition Block, .22 cal.....	.50
Randle Rifle Rest, aluminum.....	.35
Randle Non-slip Metal Sling-Keeper.....	.75
Randle Scope Stand.....	5.75
Rowley Cheek Pad, ¼" and ¾".....	3.25
Wildier Sling Pad.....	.75
New Regulation Slings.....	.75
Sling Tension Equalizer.....	1.00
Carbide Lamps.....	1.00
Set of three Sheepskin Pads.....	1.50
Wellensak Draw-Tube Spotting Scope, 20X.....	12.50
B. & L. Single Draw-Tube Scopes, 20X.....	27.00
B. & L. Prismatic Scope, 19.5X or 26X.....	49.50
Specially selected lots of Palma Match VEEZ 35, Precision 300 EXXS, Tackholes, Dewar, and Super-Match, f.o.b. Dallas, per 1000.....	6.95

Over a million Official N. R. A. Targets carried in stock in Dallas

## THURMAN RANDLE & CO.

331 N. St. Paul St.,  
Dallas, Texas

## YOU'LL LOAD YOUR OWN AMMUNITION



### Get This Book and SAVE MONEY

Get more skill into your shooting—know more about it—save money and SHOOT more. The B. & M. Handbook will be your guide. Easy to use. Takes you through every step. Complete instruction. Telling what to do and how, for providing yourself with the most accurate, newest, most modern center-fire cartridges. Covers extensively best rifle and revolver bullets, types of powder, correct priming, with latest comparative ballistic tables. Nearly a thousand different loads. Also lists and describes the famous B. & M. Straightline Reloading Tools and all needed components. Fully illustrated, 120 pages, a gold mine of interesting, useful facts which you can cash in on. Postpaid 25c. Send today to Belding & Mull, Geo. McG. Fryberger, Successor, 830 Osceola Road, Phillipsburg, Pa.

**BELDING & MULL**  
Handloading Equipment

## The N. R. A. Score Book Has All These Features

Fits into the pocket of your shooting coat or into your kit. Covers cannot be damaged by oil, sweat, rain or hard usage.

Stiff covers provide a good writing surface even when book is laid out on grassy firing points.

Rings permit locking book in position and serve as a paper weight when the wind blows.

No space wasted with useless diagrams—every page a plotting page.

Target diagrams clear cut and easy to mark. Each type of target indicated by score sheets of a different color—no wasting time to find an "A" target sheet.

Equally usable by the Service Rifle, small bore or pistol shooter.

Each book made for the man who buys it—you get only the kind of target sheet you need.

Loose leaf—retain only the sheets that will be helpful in the future and still have a book full of clean scoring sheets.

50 sheets—100 plotting charts in each book.

N. R. A. Score Book complete with covers, rings and 50 score sheets, 50c; extra sheets, per 100, 50c; minimum order sheets, 15, 10c.

## NATIONAL RIFLE ASSOCIATION

816 Barr Bldg., Washington, D. C.

**WANTED**—Type EE Glasses; good Sharps-Borchardt action, barrel immaterial. K. Meldrum, Chicago Ave., Waukesha, Wis. 6-35

**WANTED**—Lyman, Weaver, Malcolm or similar 3 to 6X scope. Sizer lubricator or sizer 311 dies. Smallbore Rifle Shooting by Crossman. Lawrence Westhoff, Walnut, Kansas. 6-35

**WANTED**—Good scope sight with mounts. Also binoculars. L. T. O'Loughlin, Warren, Ohio. 6-35

**WANTED FOR CASH**—Krag, Springfield rifles; also cartridges. 45 Auto. 30-06 Gov't. 30-40 Krag, any issue; state price and quantity. Hudson, R-52 Warren Street, New York. 6-35

**WANTED**—Short spotting scope, also 4X to 6X rifle scope. Have sporter type stock for 30-06, \$3.50. C. Streed, 1315 Harmon, Minneapolis, Minn. 6-35

**WANTED**—Winchester 52 action, barrel and stock immaterial; also Type E.E. Glasses; Krag rifle, Krag action, Krag and 30-06 ammunition. L. E. Patterson, 284 F St., Salt Lake City, Utah. 6-35

**WANTED FOR CASH**—Colt Woodsman, Official Police, Officers Model, Ace, K-22. Also 38 Special Target Revolvers. State condition and price. Hudson, R-52 Warren Street, New York. 6-35

**WANTED**—Highpower autoloading rifle, also four barreled gun, 22 above, 30-30 below, 16 gauge, right modified, left full, bargain. Pay cash. Henry Orr, Independence, W. Va. 6-35

**WANTED**—Will pay \$8.00 delivered here for Krag, .30-30, 32 Spec., or .25-35 in good condition. G. L. Walker, Oxnard, California. 6-35

**WANTED**—52 Speedlock, perfect; also good scope, bargain. T. E. Lynch, Chappaqua, N. Y. 6-35

**WANTED**—Speedlock 52, perfect condition. O. W. Rewey, Marshfield, Wisconsin. 6-35

**WANTED**—Mannlicher and Mauser Sporting Rifles, all calibers. State condition and cash price. Hudson, R-52 Warren Street, New York. 6-35

**WANTED**—Reloading outfit 38 special; Fecker scope; 30-06 Rifle; describe fully. Rak, 3911 Montrose Ave., Chicago. 6-35

**WANTED**—410 (Winchester preferred), Hi-Speed Woodsman, Smith-Corona Silent Portable, Poly Choked barrel for Remington 16 Auto. Have guns, etc., to exchange. Ray Welker, 406 No. Harvey, Oak Park, Ill. 6-35

**WANTED**—Plain 438 Lyman mounts, perfect and cheap. O. E. Jameson, 207 W. Broadway, Glendale, Calif. 6-35

**WANTED**—Winchester 52 Speedlock, excellent or perfect. Cash for best offer. Howard Wagner, Raymond, Kansas. 6-35

**WANTED**—Cash for couple Krag and Service Rifles as issued, ammunition, must be cheap. Lynn Angell, Portis, Kansas. 6-35

**WANTED**—Will pay \$20.00 for Woodsman, 6" barrel, excellent. G. Stankow, 10344 Walden Parkway, Chicago, Illinois. 6-35

**CASH OR TRADE** Springfields for late ribbed bolt Remington 30-06 action or complete. Hal Smith, 217 Southlook, San Diego, Calif. 6-35

**WANTED**—Double or single 12 or 20 hammerless 28 inch. Consider 12 auto. R. N. Garrison, Route 2, Lula, Ga. 6-35

**WANTED**—Sharps Borchardt action. W. G. C. Kimball, Woburn, Mass. 6-35

**WANTED**—Cash for 1¼" Fecker; Target Spot; 48-J; Springfield, Martini or 52 actions only; B&L Prismatic Scope. M. A. Cooper, Box 18, Rome, Ga. 6-35

**WANTED**—52 Model Winchester, also 30-06 cal. Rifle and a Model 12 Winchester shot gun. A. P. Kinney, 506 Brushton Ave., Wilkinsburg, Pa. 6-35

**WANTED**—Winchester 52 slow lock, action and barrel. Blair, 643 Church, Toledo, Ohio. 6-35

## THE TRADING POST

Bargain lists and announcements by the makers and distributors of everything used by active outdoorsmen and sportsmen collectors. Advertisers in this section are required to furnish at least one bank and two business references. We believe they are all straight shooters and thoroughly reputable, but we request an immediate report of any unsatisfactory dealings.

## FIREARMS—GENERAL

**CLOSING OUT OUR GUN BUSINESS.** Chance of a lifetime to pick up a high-grade gun at less than cost. Our over/under trap and field, 3-bbl. guns, double rifles and deluxe magazine rifles must be sold. Send stamp for list. Baker & Kimball, 278 Broadway, Lynn, Mass. 6-35

**SEQUOIA** gun bluer guaranteed factory job, \$1.00. American agents Mannlicher-Schoenauers, Walthers. Lowest prices. Imported arms and parts. Sequoia Importing Co., 53 Market Street, San Francisco, 419 American Ave., Long Beach, Calif. 6-35

**BADGER SHOOTING KIT, \$4.75.** Handsome, sturdy, well designed. Badger Shooters Supply, Owen, Wis. 6-35

**COLT** cylinder and lever rifles, Colt, Remington, Merwin Hulbert, Frontiers, Dragons, Sharps hammer and hammerless. List 10¢. Alllyn Markham, Cottage Grove, Ore. 6-35

**10% CASH DISCOUNT** to N.R.A. members on Rifles, Pistols, Revolvers, Shotguns, Sights, Scopes, Shooting Coats and Gloves. Send order and remittance or send stamp for price list. Zeppelin Arms Co., Box D, E. Akron, Ohio. 6-35

**BADGER RIFLE TRUNK \$10.50** delivered. The best one yet. Badger Shooters Supply, Owen, Wis. 6-35

**PERFECT S&W Straightline, \$21.00.** Remington 30-06 Sporter, \$37.50. Walnut Hill with #103, \$31.00. Savage and Spanish 32 automatics, \$7.50 each. Very good four barrel 31 Sharps, \$6.50. Remington 12-28 Trap grade rib, \$30.00. Fair Remington five barrel 22, \$6.50. Sharps 50, \$3.00. **WANT**—Owen or C&H 30-06 and Binoculars. Fred Anderson, Hackensack, N. J. 6-35

**New! Lyman 22 Jr. Field Scope \$12.50**  
2½ Power, complete with mount. Designed for 22 Cal. rifles. Lenses by Bausch & Lomb. C. O. D.'s Adjustable for windage and elevation. Postpaid. Filled. J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

**WINCHESTER Model 1886, 45-90 Fancy,** \$22.00; M/86, 40-82 take-down, \$18.00; M/86, .33 cal., fancy, pistol grip stock and Lyman's, \$35.00. M/86, .33 cal., plain, nearly new, \$35.00. Win. M1895, 405 fancy, \$35.00. Fine Ithaca No. 4, new last fall, never hunted with, \$70.00. New Winchester Musket, chambered by Sedgley, for hornet cartridge, \$18.00. All the above better than good. List of many guns for 6¢ stamps. A. W. Reed, Greenville Jct., Maine. 6-35

**COLTS 25 AUTO pistols:** fair, \$6.00; good, \$8.50; very good, \$10.00. Colt 32 Auto pistols: fair, \$7.50; good, \$10.00; very good, \$12.50. Colt 45 Auto pistols: good, \$15.00; very good, \$17.50; excellent, \$22.50. S&W Regulation Police Model 32 Long cal. very good, \$15.00; excellent, \$17.50. Luger pistols: very good, \$15.00; excellent, \$18.00. We carry a large stock of rifles, shotguns, pistols, and revolvers of all makes and calibers. Write us for information. Big Ben, 179-181 Third St., San Francisco, California. 6-35

**4 COLT AUTOMATICS.** .38 Pocket Model, \$21.75, excellent. 16 extra magazines, new, \$1.00 each. Hudson, R-52 Warren Street, New York. 6-35

**COLT BISLEY and Frontier models,** Frontiers shooting order, \$6.00, \$7.00 and \$8.00. Mauser pistols, holster stock, 9 m/m and 7.65. S&W stub trigger, Triplelocks, Colts C&B outside hammer. Pistols, Revolvers, Rifles and Shotguns. New list, June. Subject to return if unsatisfactory. T. C. Hansen, Canby, Kansas. 6-35

**"BIG BARGAIN" 380 ONLY!** Brand new Winchester Hand Traps. Regular price, \$2.00. Special while they last, 60¢ each. Hudson, R-52 Warren Street, New York. 6-35

**DALY 12 Ga.,** 30-30, three barrel, finely engraved, tang rear sight, \$100.00. Savage 99-R, 303, windgauge rear, \$40.00. Write for list. Kirkwood Bros., Inc., 23 Elm St., Boston, Mass. 6-35

**COLT BISLEY MODEL 44-40 caliber, 5 1/2"** flat top target, hand checkered walnut grips, very good, \$34.00. Also one with original grips, regular model 38 special, excellent, \$36.00. Hudson, R-52 Warren Street, New York. 6-35

**REMINGTON 32 auto rifle,** new \$45.00. Winchester 97, 12 gauge, new, \$25.00. Ithaca Ddl. 20 gauge, fine, \$17.00. Charles Daly 3 bbl. hammer gun, 12 gauge, 40-70 under, fine, \$45.00. WANT—Antique Guns. Bohn, 421 So. Wabash Ave., Chicago, Ill. 6-35

**22 P.P. TARGET,** Colt ivory grips, \$26.00. Winchester half magazine 25-35, 1A Lyman, \$24.00. Krag remodelled sporter, fine, \$22.00. 6X30 Crown Stereo Binoculars, case, \$14.00. Descriptions for stamp. Warren Butler, 622 Drayton, Savannah, Ga. 6-35

**3 BRAND NEW SAVAGE SUPER SPORTERS #40 MODEL,** 30-30 caliber, \$26.75. 9 ONLY, new Remington auto rifles, .25, .30, .35 caliber, \$51.85. 5 ONLY Remington repeaters, model #25, 25-20 caliber, \$24.95. 8 Winchester, model #55 takedown, 25-35 caliber, \$26.95. 15 Mossberg repeaters, model #40, .22 caliber, \$8.45. Low priced ammunition for above rifles. Send for list. Hudson, R-52 Warren Street, New York. 6-35

**NEW LOT superb Colt and other revolvers,** pistols, etc., for "condition-wise" collectors. List. Calvin Hetrick, Loch Raven, Maryland. 6-35

**NEW RIFLES FACTORY SEALED CARTONS—Remington 30A,** \$42.50, with Lyman 48 in all calibers including 25 Roberts, \$52.50. Savage 19 N.R.A., \$26.75. Savage 23D Hornet, \$32.00. Winchester 69 with peep sights, \$9.95, also Winchester 54's in Hornet, 30-06, 270, etc., with or without Lyman 48 sights at very special prices. Send stamp for NEW list of new and used gun bargains. FOLLOWING USED BARGAINS—Remington 30B, 30-06 with 48 Lyman, recoil pad, quick detachable swivels and sling, excellent throughout, \$42.50. Marlin 93, 30-30 carbine, Sheard gold front, Lyman #6 and Pacific 102E receiver sight, excellent throughout, \$27.50. Many other used bargains. John J. Tobler, 507 32nd St., Union City, N. J. 6-35

**BRAND NEW COLT'S NEW SERVICE, 45** or 44-40 caliber, 5 1/2". Also 38 W.C.F. 4 1/2". Army Special 32-20 or 41 caliber. 4 and 6" blue, \$21.85 each. Hudson, R-52 Warren Street, New York. 6-35

**GOVERNMENT GUN SLINGS** 35¢  
A-1 Army leather gun slings..... 75¢  
Brand New and oil treated..... 90¢ Postpaid  
Swivels, per set..... 25¢  
J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

## FOUR-POSITION COMFORT IN THIS COAT

**UTICA Duxbak CORP.**  
TRADE MARK

**GET** this new right-styled shooting coat, that teams up with you for real four-position comfort—"regular" appearance and satisfactory service. A neatly fitting, collarless, hip-length garment of famous Kamp-It cloth with knitted half-back and shoulder pleat inserts of worsted, that give freedom in all shooting positions. Genuine pivot sleeves that do not "hike" coat up in shooting, and are long enough. Fleece shoulder, elbow and sling pads, carefully set into the cloth—no catching of your rifle butt to annoy you. Belted back, neat and comfortable. Two deep side pockets with flaps. Ask to see it at your dealer's. If he does not carry a full line of riflemen's supplies, write us direct.

**UTICA-DUXBAK CORP.**  
830 Noyes St. Utica, N. Y. Price \$8.

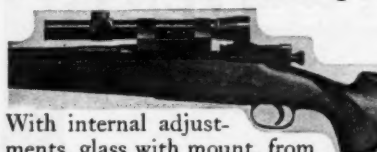


Knitted worsted down the back and concealed in the shoulder pleats.

Supplied in one color only, regular Kamp-It olive drab, with brown worsted back and shoulder inserts.



## NOSKE Rifle Telescopes



With internal adjustments, glass with mount, from

**\$27.00 to \$72.00**



Send 3 cents postage for complete catalog

**R. NOSKE, San Carlos, Calif.**

### GUNSMITHING & SUPPLIES

**HUBALEK SPECIAL MATCH BARRELS** \$36. Complete fitting, quick service, finest accuracy guaranteed. Rifle returned in 10 days. Your 52 rebarreled with new Winchester 52 barrel \$15. Any caliber single shot rifle relined to 22 Lr. Fine target rifles made to order using Ballard, B.S.A., Martini or 52 actions. Send for folder. A. Hubalek, 1167 Myrtle Ave., Brooklyn, N. Y. tf

**PERMABLU** guarantees factory type re-blue. Not paint. Gunsmith's favorite. Never fails. 50¢. Easy instructions. Perma-blue Co., Department 100, Davenport, Iowa. tf

**GUNSTOCK BLANKS:** Plain \$1.00, fancy, \$2.50. Sporters, plain \$1.50, fancy \$3.50. O. M. Friddell, 227 Davis, Findlay, Ohio. tf

**MATCH BARRELS** fitted to your actions. Prices reasonable. Redfield sights. Lyman sights and telescopes. Fecker and Bausch & Lomb telescopes. 10X Shooting coats. Eric Johnson, 149 Helen St., Hamden, Conn. tf

**SPEED ACTIONS** fitted to Winchester 52 old and new model, Winchester 54, Springfield 22's and 30's, Remington 30-S, Mauser Rifles. Shortened firing pin fall, no forward or after creep of trigger, adjustable trigger pull. **NEW HART SCOPE STAND** adjusted for height while in shooting position. **HART STA-PUT** Target Rifle Sling, the one sling that stays put. Width 1 1/4 inches. **HART PREMIER** Sporting Sling, can be adjusted for carrying without detaching any part, also used for shooting. Widths 7/8 and 1 inch. **HART "MULTIPLE"** Scope Mounting. Scope can be changed from one to more rifles without resighting after each gun has been shot in. **RESTOCKING SPECIALISTS. CUSTOM GUNSMITHS.** Hart Arms Co., 2185 E. 2nd St., Cleveland, Ohio. tf

**VENTILATED RIBS** installed on all types of shotguns, automatics, pumps, overunders, \$17.50 to \$25.00. Double barrels, \$25.00 to \$35.00. Satisfaction guaranteed. John Crowe, Guncraft, 2713 Duncan St., St. Joseph, Mo. tf

1400 ROOMS  
with BATH, RADIO  
**\$2.50**  
from 2 single  
AND \$3.50 DOUBLE

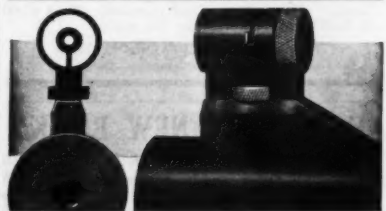
Whether you come to New York for business or pleasure, you'll find the Lincoln, one of Gotham's largest and newest hotels, offers you superior accommodations for your hotel dollar in New York.

• One block to Times Square... 3 blocks to 5th Avenue... 8 minutes to Wall Street... 69 theatres within 6 blocks.

• 32 stories of sunshine... three fine restaurants to choose from

**NEW YORK'S 4 STAR HOTEL**

**Hotel LINCOLN**  
44th to 45th Sts. at 8th Avenue  
**NEW YORK**



Bronson quick-detachable front sight, with Redfield globe and insert. Same height as telescope. Self-locking, will not shoot loose. Neat and absolutely accurate. For any heavy-barrel, also light 52's. Price \$8.75. Give model and barrel diameter. Can save you money on new arms and equipment. Selected 22 cal. ammunition. Good used guns or telescopes accepted on new. Write what you have and want. Stamp.

Bronson Sportsman's Supply, Box 21, Salem, Ohio.

## 32 Men Will Be Lucky

There are just 32 men in this country, no more, no less, who will be lucky to purchase a copy of this fine old volume—"The Kentucky Rifle."

Only 32 copies of the original edition bound in plain black cloth are left, and the book positively will not be reprinted. While they last, these volumes are priced at \$5.50 each.

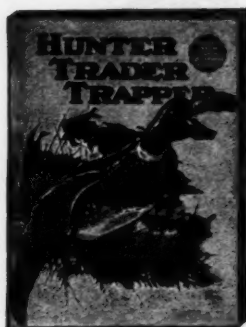
A few more copies of the DeLuxe Kentucky Rifle are also available at \$7.50 each. The DeLuxe copies are bound in wine-colored antique-grained fabrikoid and dye-stamped with an "Old Kentucky" on the rib (see cut).

"The Kentucky Rifle" is the only authentic book on "Old Kentuckys." It is a complete volume of 250 pages, and contains 126 full-page illustrations.

Will you be one of the lucky purchasers of these few remaining copies? Remember the book bound in plain black cloth costs but \$5.50, while the DeLuxe volume is \$7.50. Both editions are sent postpaid.

**National Rifle Association**  
816 Barr Bldg., Washington, D. C.

## The Homiest, Newsiest Outdoor Magazine



# 12 Big Copies \$1.10

Hunter-Trader-Trapper

An outdoor magazine that's different, contains stories sent in by the readers themselves, written by fellows just like you, timely items from everywhere, pictures of you and your friends, your questions answered, you are bound to like H-T-T. Departments on firearms, fishing, sheet and trap shooting, coon-hunting, watercrafting, fur farming, dogs, etc. Fur prices and game laws in season. Regular price \$2.00 per year, 25¢ per copy at news stands. This offer brings you 12 copies (six recent back copies and one copy each month for the next six issues) and a waterproof match box free.

### Waterproof Match Box FREE

This match box is built of seamless brass, nicely nickeled and is absolutely water tight. Holds several days' supply of matches. Every sportsman should carry one at all times. Dry matches may some day save your life—it has done it for others. Get yours free by sending in your subscription to Hunter-Trader-Trapper today. Simply write your name and address on the margin of this ad and mail it with your dollar and ten cents today.

**Hunter-Trader-Trapper, 382 So. 4th St., Columbus, Ohio**

## BETTER MARKSMANSHIP GUARANTEED!



The Bair Revolver Manual positively will improve your shooting. We guarantee that.

Written in concise everyday language, this new book is a complete training course in revolver shooting. Over 38 illustrations in its 55 pages. Grease proof cover; pocket size.

If careful study of this Manual does not improve your revolver marksmanship within 15 days, return it to us and we will refund your money. Price 50 cents postpaid—stamps accepted.

Those who use the .45 service pistol should also order a copy of Colonel MacNab's "Pistol Training Course." Same price. Same guarantee. Send \$1.00 for both Manuals. We pay the postage.

**NATIONAL RIFLE ASSOCIATION**  
Barr Bldg., Washington, D. C.

## HATCHER'S NEW BOOKS

Textbook of Firearms Identification	\$7.50
Textbook of Pistols and Revolvers	4.25
Modern Gunsmithing, Baker	4.50
.22 Caliber Rifle Shooting, Landis	3.75
Book of the Springfield, Crossman	4.00
Military and Sporting Rifle Shooting	4.50
American Pistol Shooting, Frazer	5.00
Modern Shotguns & Loads, Askins	4.00
Wilderness Hunting & Wildcraft, Whelen	3.75

Send for descriptive catalog

**Small-Arms Technical Publishing Co.**

Box 18, Marines; Onslow Co., North Carolina

## HUNTERS STOP RUST! FIENDOIL

Best combined oil and solvent  
for gun cleaning—only cleanser  
with original patented formula—simply apply, no ram-  
rodding. At your Sports Store.

**GUNSMITHING, restocking, rebluing. Flintlocks. Reasonable. Bailey, Lisbon, N. H. 4-36**

**RELINING—All 22, 25, 32 rim or center fire. Mauser, Springfield to 25 Roberts, 250-3000, 270. Special barrels to your order. 22 Match, 25 Roberts, 270 \$35.00. All work guaranteed. F. Surkamer, 54 W. Lake St., Chicago, Ill. 7-35**

**\$1.00 EACH, Springfield Rifle Barrels, 30 caliber, second hand, limited supply. Weill's Curiosity Shop, 20 So. 2nd St., Philadelphia, Penna. 6-35**

**PISTOL SHOOTERS!!** Why spend big money on pearl stocks? Send me your old stocks and have them covered with artificial pearl. Entirely new process. Beautiful and durable. Priced at \$2.00 per pair, any type. Postage paid anywhere. Write for photographs and particulars to Ivan A. Flatman, 440 Greenwood Ave., Toronto, Ontario, Canada. 5-35

**OREGON MYRTLE—The most beautiful stock wood. Stocks, blanks, wood novelties. Stamps for price list and photos. D. H. Mosher, 474 Court St., Salem, Ore. 6-35**

**FANCIERS OF FINE GUNS.** Have your favorite firearm engraved. Very attractive prices. Work guaranteed. Write J. C. Shoemaker, 520 N. Titus Ave., Ithaca, N. Y. 6-35

**EXPERT gun engraving, folder on request. Artistically engraved revolvers always on hand. R. J. Kornbrath, 284 Asylum St., Hartford, Conn. 6-36**

**KRAGS, ENFIELDS REMODELED, high comb, pistol grip, etc. Priced right. Geo. Warneburg, 5400 Mac Donald, Richmond, Calif. 6-35**

**MUZZLE LOADERS** relined, stainless steel, \$15.00. 22 cal. \$5.00 carbon steel, stainless, \$4.00. New Hornet barrels fitted, \$15.00. Blank barrels, \$10.00. Blank target barrels, \$10.00. B. I. Hawkins, 1600 Brewster Ave., Cincinnati, Ohio. 6-35

**BLACK WALNUT Rifle and Gun Stock Blanks.** Circassian, Oregon Myrtle, Birds Eye Maple, beautiful Burls. Cheapest prices, special discounts for quantity orders. D. W. Thomas, Box 184, Vineland, N. J. 6-35

**NEW PICTURE** of remodeled, restocked rifles, with price list 10¢. Trade your extra equipment for a remodeling job. Warner & Sons, 2512 Pleasant Valley Ave., Altoona, Pa. 6-35

**GUNSMITHS AND AMATEURS!** We carry the most complete line of high grade stock trimmings and Gunsmithing tools and supplies. You can save money using our goods. Liberal discount to Gunsmiths. Shooters Specialty Co., Box 792, Butler, Penna. 6-35

**SPEED ACTION FOR ENFIELD,** cocks on opening. Winchester Model 12, 16 & 20 ga. rechambered and adjusted for 2¾" shells. High grade RESTOCKING. J. F. Morris, Upper Sandusky, Ohio. 6-35

**CHECKERING TOOLS, \$4.50.** Set includes three spacers to cut 12-16-20 lines per inch or as ordered, double end V cutter, file, straight edge, full instructions. Satisfaction guaranteed or purchase price refunded. R. J. Snyder, Endwell, N. Y. 6-35

**22 TARGET RIFLES** relined. I use only best Parker tubes. All guaranteed quick service. Stamp for prices. Note new address. W. A. Griffing, 514 W. State St., Milwaukee, Wis. 6-35

**EXPERT RESTOCKING, checkering, very reasonable.** Photo, details, stamp. Beautiful bakelite grip caps, all sizes, 50¢. Elmer Key, Chelsea, Okla. 6-35

**COMPLETE REMODELING** of military arms, \$20.00 up. Includes stock, re-bluing, receiver sight, swivels. Checkering tools, \$1.50 set. E. Rye, Blooming Prairie, Minn. 6-35

**SPRINGFIELD 1903 parts** as follows: Service barrels with sight bases, good, \$1.00; barrels with bases, poor, \$.25 each; cut offs, \$.50; firing pins, \$.50; complete front sights, \$.50; front sight bands, \$1.00 per dozen. Wide sight bands suitable for making two barrel bands, \$.15 each. Springfield 45-70 carbines, excellent, \$.40. Used Remington 50 cal. rifles, \$2.00. Please include stamps for postage. Satisfaction assured. Robert Woerner, 7129 Montague St., Philadelphia, Pa. 6-35

**RIFLE BARRELS** relined for the 22 caliber long rifle cartridge. Chrome Nickel Steel, or Stainless steel liners. Charles A. Diller, Dayton, Ohio. 6-35

**GUNSMITHING SUPPLIES.** Circassian walnut blanks. Buffalo horn fore-end tips. Buttplates, grip caps. Sling swivels, barrel bands. Hunting telescopes and mounts. Chambering reamers. Ask for circular. Jaul Jaeger, 130 Apsley Street, Philadelphia, Pa. 6-35

**MACHINE INLETED** rifle and shotgun stocks, finished stocks, any variety wood. Special stocks 52 Winchester your order. Barrel bands, butt plates, quick detachable swivels, rifle and shot gun cases, 10X shooting coat and glove. Stamp for list. Howard F. Hawk Gun Co., Reading, Pa. 6-35

**ENGRAVED** nickel silver nameplates for your guns, guncases, etc., made to your order. Oval ¾" to 2" with your name, \$1.00. Morton's, 95 Nassau, N. Y. C. 6-35

### BINOCULARS, SCOPES, SIGHTS & CAMERAS

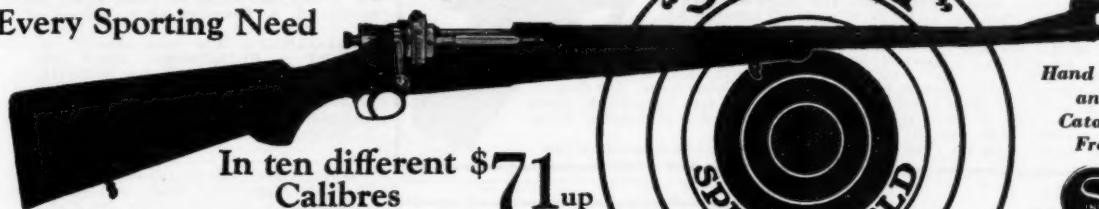
**RIFLE TELESCOPE SIGHTS:** telescope mounts; binoculars; duplicating machines. (List 3¢.) Robert W. Knight, Seneca Falls, N. Y. 5-36

**\$25.00 HUET French Prismatic Binoculars,** 12 power, with leather case. Cost Government \$90.00. Guaranteed. Big selection telescopes, binoculars, field glasses and firearms. Write for list. Weill's Curiosity Shop, 20 S. 2nd St., Philadelphia, Penna. 6-35

**REMINGTON .25 ROBERTS**  
Model 308, bolt action 24-in. barrel \$45.25, with Lyman 48 Windgauge sight, \$55.25. The Newest in fine guns. Available in 30'00, etc. Free! Army Sling with each gun purchase.  
**J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.**



There's a "SEDGLEY" Springfield for Every Sporting Need



In ten different \$71<sup>up</sup> Calibres

Other Calibres Built to Your Order

**R. F. SEDGLEY, Inc.** Manufacturer Established 1897  
2311 N. Sixteenth St., Phila., Pa.

Pacific Coast Representative: D. W. King Co.,  
555 Howard St., San Francisco

Hand Book  
and  
Catalog  
Free



Springfield  
30-06 Actions  
Used on  
All Models

\$6.25 ENGLISH RIFlescope, three power with focusing adjustment and hair lines. Easily mounted. Money refunded if unsatisfactory. Weill's Curiosity Shop, 20 S. 2nd St., Philadelphia, Penna. 6-35

UNION HUNTING SCOPE MOUNTS. Constructed exceptionally strong and accurate. Price, \$9.00. Write for bulletin. Union Auto Specialties Co., Brookville, Pa. 6-35

BINOCULARS CLEANED AND REPAIRED. Alignment corrected to 1/1000 radian on our special collimator. Mail your glass for estimate. Mirakel Optical Co., Mount Vernon, N. Y. 11-35

BINOCULARS, Scopes, Sights, etc. Bausch & Lomb Prismatic Scope, \$49.50 with a Badger Tripod "free." Badger Shooters Supply, Owen, Wis. 6-35

TELESCOPE SIGHTS, Spotting Scopes, Shooting Coats, Reloading Supplies, "Selected" 52s. Discount to N.R.A. members. Badger Shooters Supply, Owen, Wis. 6-35

UNION HUNTING SCOPE MOUNTS constructed exceptionally strong and accurate; price, \$9.00. Write for bulletin. Union Auto Specialties Co., Brookville, Pa. 6-35

#### AMMUNITION & RELOADING SUPPLIES

SPECIAL CARTRIDGE SALE \$2.00 per HUNDRED. 25-20, 32-20, 38-40, 44-40 smokeless, also 25-20 Black Powder, \$1.50. Hudson, R-52 Warren Street, New York. 6-35

GUN CLUBS, ATTENTION!! OUTDOORS Magazine is now running the most complete and comprehensive illustrated series of articles on Reloading ever published in any sporting magazine. This series, in addition to the gun department, is edited by Philip B. Sharpe, Life Member of the N. R. A. The Reloading series began with the January issue and all American Rifleman readers sending in only ONE DOLLAR will receive OUTDOORS Magazine for a full year—twelve copies crammed from buttplate to muzzle with special things of interest to the Sportsman. Your subscription will be entered immediately and back copies commencing with the January issue will be sent to you free of charge WHILE THEY LAST that you may have the complete Reloading series for your files. Clip this ad and mail with \$1.00 to OUTDOORS MAGAZINE, 333 No. Michigan Ave., Chicago, Ill., Dept. N.

SPECIAL SALE!! 22 Long Rifle Cartridges, Western Lubaloy lubricated, non-corrosive, \$4.00 per thousand. Hudson, R-52 Warren Street, New York. 6-35

OBSELETE AMMUNITION SALE!! I have several thousand rounds of old, obsolete ammunition for sale at prices ranging from \$2.50 per 100 to \$7.00 per 100. What kind do you want? Send 3¢ stamp for reply. Chas. Shattuck, Cherry Creek, N. Y. 6-35

COPPER COATED .22 W.R.F. Lesmoke cartridges, extra special, \$4.00 per thousand. 1/2 million cartridges. Stamp for List. Hudson, R-52 Warren Street, New York. 6-35

**SLEEPING BAGS \$8.95**  
As an wool filled 7 1/2 lb., 36-in. zipper bag with Army Duck outer covering, brown satine lining. Postpaid  
J. WARSHAL & SONS, 1014 1st Ave., SEATTLE, WASH.

**HANDEE**  
Tool of 1001 Uses

Grinds, routs, drills, carves, sharpens, cuts, engraves. Over 100 wheel shapes available. Fits the hand perfectly. Weighs 1 pound. For use at home, in the shop or take to the job. Do away with slow hand work! A. C. or D. C., 110 volt, 13,000 r. p. m.

Order on 5 - d & 7 trial. Satisfaction guaranteed. Ask for FREE booklet.

**New** MASTER CRAFTSMAN'S SET 17 useful accessories to grind, drill, polish, sand, cut, carve, engrave, etc. Prepaid \$5.00

Chicago Wheel & Mfg. Co., Dept. 26, 1103 W. Monroe St., Chicago, Ill.

**U. S. Army Prismatic Rifle Sight and Observer's Scope**  
"Warner & Swasey"  
Complete with Rifle Mounting, Leather Case. Army Krag Rifles, 30/40; U. S. Army Oil Preserved, Leather Gun Sights, new, 50c ea. or \$5 doz. Used, 25c ea. or \$2.50 doz. Rifle parts, Camp Equipment, Army & Navy Surplus Goods. Stamp 10c for NEW, complete, 1935, big catalog. Refunded on purchase of \$1.00.  
Globe Sales & Mfg. Co., R-624, Broadway, New York

**AMMUNITION SALE—22 Savage, 25, 30 or 32 Remington rimless; 25-35, 25-36; 7 m/m, 303 British; 303 Savage; 30-30; 9 m/m Mauser, 32 Special, 30-06 Boatall. All \$3.00 per hundred. Stamp for list. Hudson, R-42 Warren Street, New York. 6-35**

**NEW LOVERIN .30 Gas Checked bullet.** Bond 311910. Very accurate. Also .25, .270, .30, .38 and .44. Tools, Sights. Guy Loverin, Lancaster, Mass. 6-35

**SELECTED GOVERNMENT CARTRIDGES \$2.25 per HUNDRED.** 45 Automatic and 30-06 Springfield. Stamp for list 1/2 million cartridges. Hudson, R-52 Warren Street, New York. 6-35

**CAST BULLETS** from 22 cal. to 45 cal. Special for June, Ideal 257388, ready to shoot, \$50 per 100. Cases, powder, primers and tools in stock. Discount on tools with bullet order. Stamp please. Lawrence L. Stout, Darlington, Wis. 6-35

**AMMUNITION PRICED BY THE THOUSAND—22 W.C.F. (used in S.S. Hornet) black powder, \$8.00; smokeless, \$12.00; 25-20 S.S. black powder, \$12.00; Smokeless, \$16.00. Hudson, R-52 Warren Street, New York. 6-35**

**MUZZLE LOADERS FOR MATCH WORK.** Fine American and English outfits, priced according to condition and completeness. Round ball rifles, \$12.50 up; "picket" outfits, \$25.00 to \$100.00. Correspondence invited. Locks, trigger sets, nipples, ram rods in stock. E. M. Farris, Portsmouth, Ohio. 6-35

**HUDSON HAS SOFT POINT CARTRIDGES—\$3.00 per hundred for #95 Winchester and Gov't Springfield using 30-03 or 1903 type cartridges.** Hudson, R-52 Warren Street, New York. 6-35

Specially Designed  
**LYMAN SIGHTS**  
for shooters who expect the best results in target shooting

No. 5B combination front sight, with reversible ivory bead and metal pin head. \$1.75

No. 2A Tang Sight includes sighting disc, patent thumb lock, elevating adjustment. Folds down when not in use. Disc is removable. \$5.00

U. S. PAT. 1,201,209 CAN. PAT. 230,217

Now supplied with large diameter broad rim insert retaining nut. 9 interchangeable inserts. 17A Target Front Sight, \$2.50.

Lyman 48J and 48Y Receiver Sights, micrometer adjustable by 1/4-min. clicks with large knurled knobs. Easily mounted. For Win. 22, Bar. 19-23, N. R. A., and other target rifles. \$13.00.



**NEW Lyman Sight Catalog**  
No. 23 now ready. 10c  
**LYMAN GUN SIGHT CORP.**  
90 West St., Middlefield, Conn.

**HOPPE'S No. 9**  
Removes Bore Lead

Use it regularly in cleaning small-bore. Also in high velocity rifles, to remove metal fouling. Prevents rust. Apply with  
**HOPPE'S Cleaning Patches** of clean, soft cotton flannel of right thickness, size, shape. And for gun actions, fishing reels, always use HOPPE'S Lubricating Oil. Pure, penetrating. Will not gum. Cleans, polishes exposed surfaces. Get Hoppe Products at your Gun Dealer's.

**FRANK A. HOPPE, Inc.**  
2321 N. 8th St., Philadelphia, Pa.  
SAMPLES: Send 10c for No. 9. 15c for Oil. Full can Patches 25c. Gun Cleaning Guide FREE.

## COLT-KING WOODSMAN PISTOLS

PISTOLS BY COLT; SIGHTS BY KING

**FRONT SIGHTS: KING PATENT, MATTED RAMP-REFLECTOR TYPE** Fitted with Choice of 1/16", 5/64" or 3/32" Luminous Red, Gold or "Kingold" White Beads or .080" or 1/10" POST (Patridge Type).  
**REAR SIGHT:** New King Pat. MICROMETERED Windage and elevation adjustment with LOCK and Square or "U" White Outlined Rear Disc to match front sight.  
**PRICE:** Colt Woodsman 4 1/4" or 6 1/2" barrel Complete with Choice of Sight Combination FITTED to Pistol, \$39.50 Prepaid or C.O.D. in United States. Any Combination of above sights fitted to YOUR Pistol, \$28.50. With Peep Sight, \$9.00. Prices quoted on Ramp-Reflector Sights with white outlined rear fitted to all models of pistols, revolvers and rifles. Send stamp for Circular "A."

D. W. KING SIGHT CO., 555 HOWARD ST., SAN FRANCISCO, CALIFORNIA



## For lasting, velvet smoothness— —Use GUNSLICK

Oils rub off—evaporate—leave gummy films—GUNSLICK IS DIFFERENT! It builds a lubricating film on metals that eliminates friction—and this velvet smoothness LASTS!

Put a little GUNSLICK into the action of the hardest working gun you own, then try it. You will not know it is the same gun. Now try GUNSLICK on your hand-stoned special and see real smoothness and that smoothness lasts. Try GUNSLICK on any kind of rifle, shotgun or handgun and see real smoothness.

Send 25¢ today for a tube or ask your dealer for GUNSLICK.

## OUTERS LABORATORIES

Onalaska, Wisc. Dept. "R"

## X-RING GOFORT TARGETS and CENTRIFUGAL BULLET TRAPS

Need no further endorsement than to be sold by these reliable distributors, who carry ample stocks for your convenience.

The National Target and Supply Co., Wash., D. C.  
 The H. & D. Folsom Arms Co., New York City.  
 A. F. Steeger, Inc., New York City.  
 D. W. King Sight Co., San Francisco, Cal.

### X-RING PRODUCTS CO.

Peoria Illinois

**DUPONT AND HERCULES** rifle powders, \$1.60 per pound. No. 80 and pistol powders, \$1.00 per half pound. Packed into shotgun shells permitting shipment by express 30¢ per canister extra. Primers, bullets, cases for all popular calibers. Leslie Lindahl, Central City, Nebraska. 6-35

### ACCESSORIES

**LAVERY NON-SLIP SLING LOCK** prevents sling slipping. **SIMPLE-SURE-PERMANENT.** Send 25¢, stamps or cash, for yours. Give dealer's name and will include special offer unique rear sight protector. Frank P. White Co., 703 3rd Ave., So. Minneapolis, Minn. 6-35

**BETTER RIFLE SCORES GUARANTEED** with a 10-X shooting coat. Write today for FREE catalog on shooting coats, gloves, kits, target portfolios and gun cases. 10-X PRODUCTS, Department 8, Des Moines, Iowa. 6-35

**FACTORY SECONDS** Recoil Pads \$1.00 postpaid. Complete with screws for attaching. You save \$2.25. Send outline of gun butt. Prompt delivery and satisfaction guaranteed. Incor Mfg. Company, Terminal Bldg., Youngstown, Ohio. 6-35

## Bond Double Cavity Bullet Mould



## LOADING TOOLS and COMPONENTS

Send 10c for latest catalog on hand loading

## MODERN-BOND CORP.

813 West 5th Street Wilmington, Del.

\$2.00 NEW Decapping and Cleaning Tools for small arms cartridges with description, carrying case. Cost Government \$10.00. Guaranteed or money refunded. Weill's Curiosity Shop, 20 S. 2nd St., Philadelphia, Penna. 6-35

**UNIVERSAL SCOPE STAND** for rifle and pistol shooters. Postcard for prices and information. Loder & Wilson, 1014 Cherry St., Erie, Pa. 9-35

**GENUINE U. S. ARMY LIVE LEATHER SLINGS**, new, 1 1/4", postpaid, 85¢ each. Hudson, R-52 Warren Street, New York. 6-35

**K-1 CASWELL Target Carrier**, \$12.50 for 25 foot; \$13.75 for 50 foot and \$14.50 for 75 foot gallery. Special ballbearing type, designed for the home or club gallery. Caswell Shooting Gallery Equipment Co., Anoka, Minnesota. 7-35

**PRACTICE IN YOUR BASEMENT.** Liberal sample assortment 25-ft. Rifle, Slow and Rapid fire pistol targets, 25¢, postpaid. Zeppelin Arms Co., Box D, E. Akron, Ohio. 6-35

**EXTRA SPECIAL IMPORTED** heavy cowhide holster for Ruger Automatic 4" barrels. \$1.00; 8" barrels, \$1.50. Hudson, R-52 Warren Street, New York. 6-35

**NEW! SKEET** shooter's jacket at amazing low cost. Write today. 10-X Products, Des Moines, Iowa. 6-35

**PISTOL SHOOTER**, a Grip Gadget will improve your scores. Fills space behind trigger guard. Makes rapid fire manipulation easy. Prevents shifting of hand on grip. Does not change shape nor dimensions of grip. Installed with screw driver. #1 for small and average hands, #2 for large hands. For most medium and large size Colts & S&Ws. \$1.00. R. J. McFeeter, 631 Eagle Rock Avenue, West Orange, N. J. 6-35

**SMITH & WESSON REVOLVER CLIPS** for 45 Auto cartridges, \$1.00 dozen pairs. Hudson, R-52 Warren Street, New York. 6-35

**RIFLE SHOOTERS** find no substitute for the Neilly patented never slip keeper. It holds like a bulldog. Never slips at the final moment. Price 75¢. D. H. Neilly, R. D. #2, Box 442, Bradford, Pa. 6-35

**CLOSING OUT**—328 Pairs slightly imperfect assorted pearl handles for Colt or Smith & Wesson revolvers. State models wanted. Hudson, R-52 Warren Street, New York. 6-35

**RID-JID TELESCOPE STAND**, won't shimmy, lays close to the gun barrel, eliminates moving body to see through scope. Easily adjusted, light weight, black finish. \$4.00 prepaid. Money returned if not delighted with purchase. Ervin Hiltz, 915 Washington Ave., Minneapolis, Minn. 6-35

**BADGER TRIPOD SCOPE STAND**, Conventional design, \$4.75. Jointed extension for kneeling and sitting, \$1.50. Badger Shooters Supply, Owen, Wis. 6-35

**GENUINE NEW MILLS WOVEN CARTRIDGE BELTS**, nearly all calibers except .30. Also shell belt .410, 28, 20 gauges. Extra special, \$1.00 each. Hudson, R-52 Warren Street, New York. 6-35

**OLD RELIABLE GUN BLUER**, with etcher, for the amateurs, success in gunbluing, \$1.50, postpaid. 300 Savage 99RS, hornrip, perfect, \$48.00. Scott 10 ga. D. B. hammer, engraved, pitted, good shooting order, \$7.00. Black Walnut Blanks, full length for rifles, \$1.50. Stamp please. K. L. Keene, Mankato, Minn. 6-35

**RELOADERS**—Why take chances on eye INJURY or BLINDNESS. Check your re-sized .30-06 cases with the new WILSON cartridge case gauge. Indicates cone to head length or over all length at a glance. Price \$4.25, postpaid. Send stamp for illustrated circular. L. E. Wilson, Wilson Bros., Cashmere, Wash. 6-35

**NORTH WOODS** Combination Match Case, Compass, Magnifying Glass, 70¢ each. Cartridge novelty cigarette lighter, 25¢ each, postpaid. Hudson, R-52 Warren Street, New York. 6-35

**FREY PROTECTO GUN POLISH**. Improves and protects all good finishes on firearms and their accessories. Developed by practical shooters and used over a long period of time with very gratifying results. Protecto will fill a long felt need when your pet sporter has been exposed to rain and snow. Easy to apply and a real protector. Recommended in the Dope Bag. Price 35¢. Frey Brothers, Box 76, Glenwillard, Pa. 6-35

### ANTIQUES & CURIOS

**INDIAN RELICS**, Beadwork, Old Guns, Curios, Coins, Minerals, Fossils, Catalog and Arrowhead 6¢. Vernon Lemley, Northbranch, Kansas. 6-35

**WAR RELICS** for Clubhouse or Den. Vickers Aircraft Machine Guns; cost Government \$700; rendered unserviceable without marring. Only \$7.75 each, f. o. b. N. Y. Sent C. O. D. on payment of \$1.00. Weight 33 lbs. Fiala Outfits, 47 Warren Street, New York. 6-35

**KENTUCKY** rifles, pistols, swords, daggers, engraved powderhorns, medals, Indian beadwork. Lists free. Nagy, 8A South 18th Street, Philadelphia, Penna. 6-35

**ANTIQUE ARMS**—Colts of all kinds, Percussion and Cartridge Models. Other pistols are long arms. Write your wants. Free list. Richard D. Short, Woodstock, N. Y. 6-35

### PATENTS

**PATENTS**—Low cost. Easy terms. Book and information free. Highest references. L. F. Randolph, Dept. 370, 724 9th St., Washington, D. C. 6-35

### STAMPS

**FREE** Packet of Stamps and Perforation Gauge to Applicants for general approvals. Hoyt, 42 Cornhill, Boston, Mass. 6-35

### GUIDES

**HUNT BIG GAME IN ALASKA**. Plenty of shots positively guaranteed at the Big Alaskan Brown Bear. S. S. Swenning, Box 174, Ketchikan, Alaska. 6-35

**MEXICO** Hunting unequalled; ranch owner offers limited permits. E. A. Hatton, Del Rio, Texas. 6-35

### MISCELLANEOUS

**CANADA, THE RIFLEMAN'S PARADISE**. Its true picture is given you in the pages of *Rod and Gun in Canada*. Canada's national outdoor-life magazine. Each issue is packed with honest-to-goodness yarns of hunting and fishing in the Dominion, which has its second to none. Real stories that men can appreciate and a gun department unexcelled. Send \$1 for 6 months' trial or \$2 for year to *Rod and Gun*, P. O. Box 125, Sta. A., Montreal, Canada. 6-35

**SWAPPER'S FRIEND**, Route 36, Saline, Michigan. Interests swappers, collectors, sportsmen, 50¢ year. Sample 10¢. 6-35

**BALLISTICS!** T W A/Windage for High Power Rifles, a Handy Field and Study Booklet for Sportsmen, price, 75¢. Sportsman's Scientific Service, Aurora, Illinois. 6-35



## POWDER PLAYS A BIG PART *in the pattern*

**W**HATEVER the range... you want an even, balanced pattern with no holes for the target to slip through. Several things affect the evenness of pattern but most important of all—the powder.

If powder burns too fast, the shot pellets are deformed by the force of the blow the powder delivers as it starts them out of the shell. The

pellets are further dented as they are pushed through the choke. Thus, unduly deformed they are erratic in their flight and a poor pattern results.

Good patterns are obtained from powder whose rate of burning is evenly controlled. The shot pellets are started on their way with a push that does not crush them. Maximum pressure is developed

after the shot has moved a few inches down the barrel. The pressure has lowered before the pellets pass through the choke and the minimum of deformity is the result.

The development of powders which perform in the most efficient manner under all conditions has been part of the work of the du Pont Company for 133 years.



E. I. du Pont de Nemours & Company, Inc., Sporting Powder Division, Wilmington, Delaware



# National Company Team Match Won With *Western!*

Company B. Rifle Team, 186th Infantry, Oregon N. G. Upper row:—Capt. C. V. Shoemaker, Team Captain; Sgt. W. F. Durbin, Coach; 1st Sgt. D. D. Holland. Front row:—Sgt. L. J. Brice; Pvt. 1st Class J. O. Beica; Sgt. H. V. Ide; Pvt. 1st Class, J. A. Taylor.



Shooting Super-Match at the 1935 Missouri State Rifle Matches, Jefferson City, Mo., May 11-12, V. J. Tiefenbrunn, St. Louis, won the Missouri State Individual Small Bore Championship with a score of 192 x 200 over the 200-yard range, fired on the decimal target.

## Oregon Team's Score 15 Points Ahead of 2nd Place Winners! 221 Teams Competed!

The Company B Rifle Team, 186th Infantry, Oregon National Guard, *had* to have a lot on the ball to win the National Company Team Match. They were competing against 220 teams!... Stiffest kind of competition!... *Plenty* of it!

What each man had on the ball as a gun pointer was augmented by what each Western cartridge had on the "ball" to help it into the bull's-eye.... Western accuracy... *Super-accuracy!*... *Plenty* of it!

The winning score of 2866 was 15 points better than the score that placed second, made with another brand of ammunition.

Try Western before your next match. Shoot a few rounds of Super-Match .22 L. R. Smokeless, with lead lubricated bullets. Test Super-Match for close grouping—for stability under all conditions. Mail Coupon for complete details.

WESTERN CARTRIDGE COMPANY  
Dept. F-25, East Alton, Illinois

*Western*  
**SUPER MATCH**

WESTERN CARTRIDGE COMPANY, Dept. F-25, East Alton, Illinois

Send complete information on Western Super-Match .22 Long Rifle smokeless cartridges.

Name .....  
Address .....  
Post Office ..... State .....

NATIONAL RIFLE ASSOCIATION  
COMPETITIONS DIVISION  
816 Barr Building,  
Washington, D.C.

Bulletin No. 40

NATIONAL COMPANY TEAM MATCH  
( 221 Entries )

April 4, 1935

Conditions: Three stages: A stage will consist of two strings each of ten shots.  
First Stage—One string prone, one sitting. Second Stage—One string prone, one kneeling. Third Stage—One string prone, one standing.  
To the winning team the title "National Company Gallery Rifle Champion, 1935," and six silver medals. Bronze medals to the second and third teams. Metallic Sights.

Team and Address	Score	Rifle	Ammunition
Co. "B" 186th Inf., Portland, Ore.	2866	Springfield M-1	Western



ch  
ir  
es,  
D.,  
J.  
is,  
Mc  
ore  
a  
ed  
he